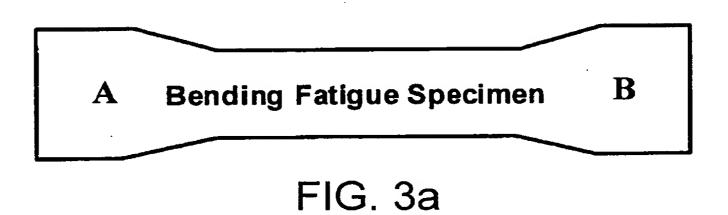


FIG. 2

Title: SURFACE MOUNTED AND SCANNING...

Inventors: Neil J. Goldfine, et al.
Replacement Sheet



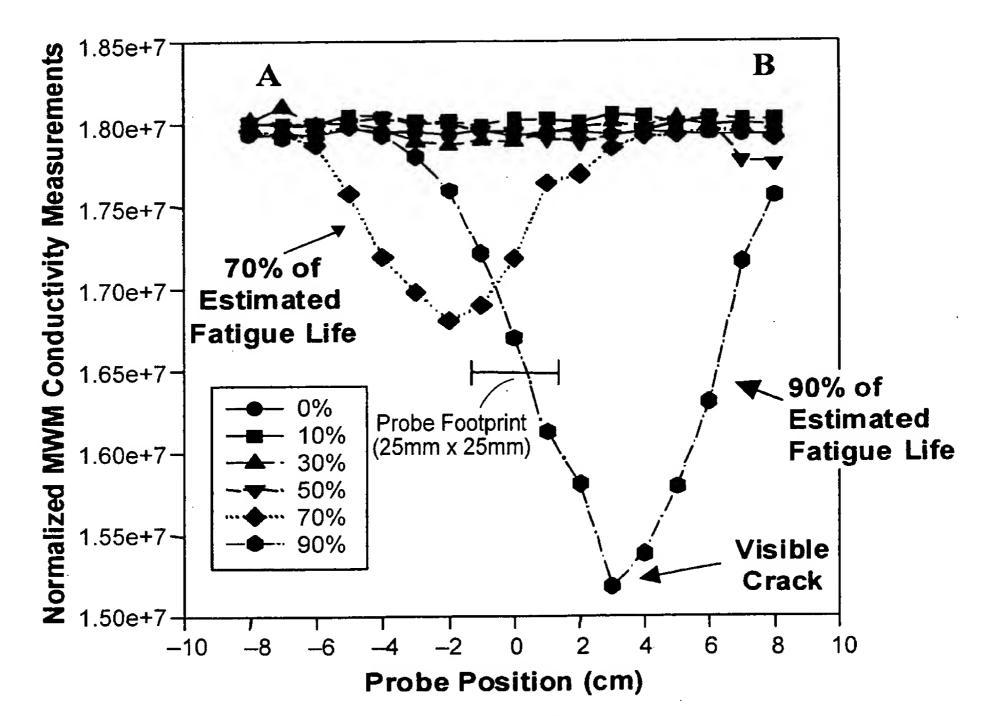
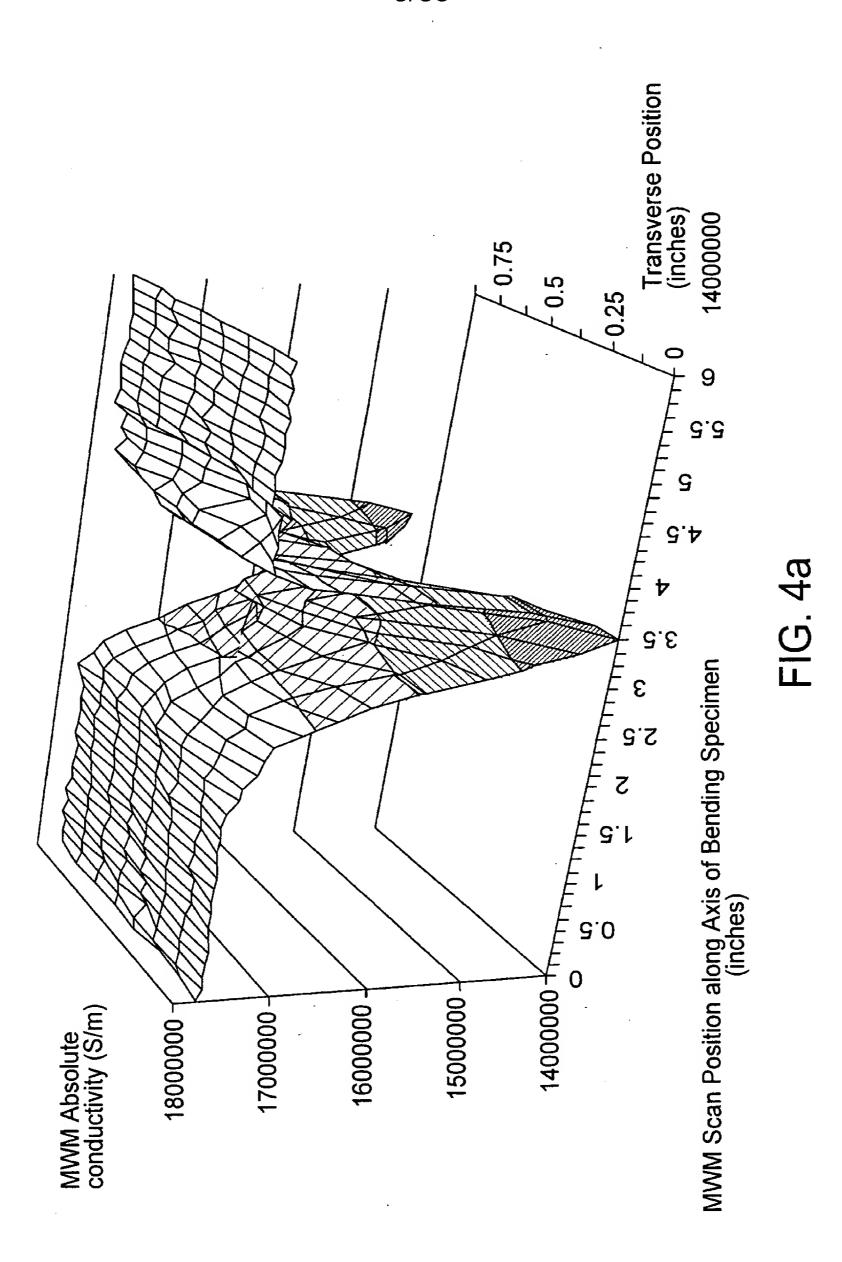


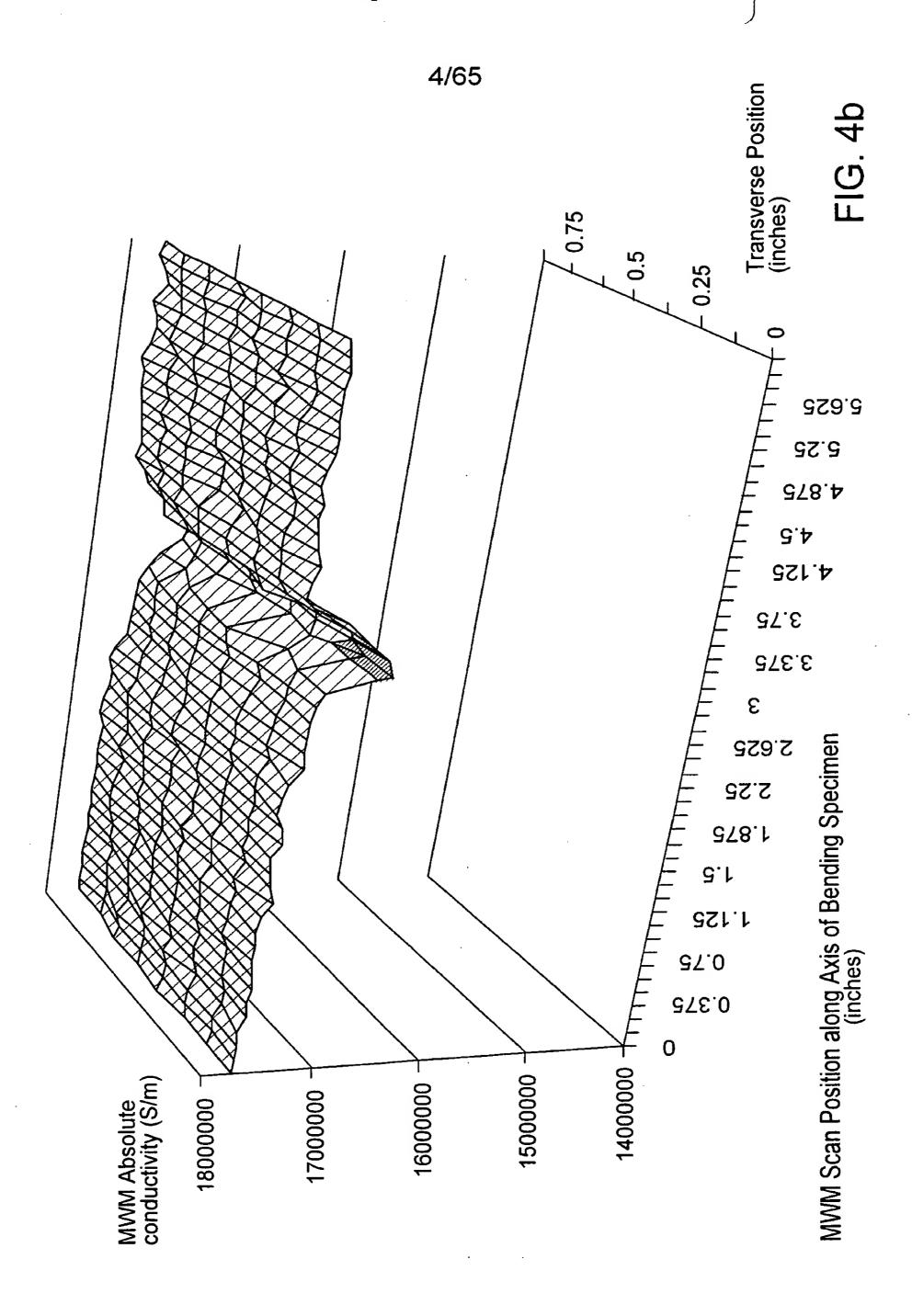
FIG. 3b

Title: SURFACE MOUNTED AND SCANNING...

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Title: SURFACE MOUNTED AND SCANNING...



Title: SURFACE MOUNTED AND SCANNING...

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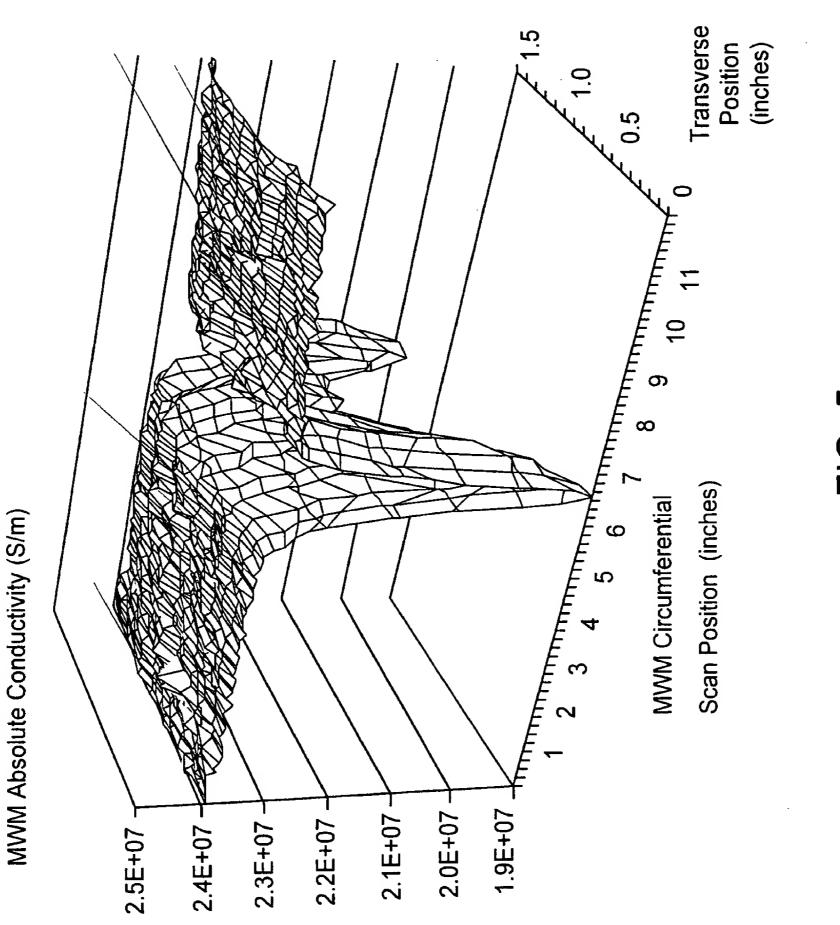


FIG. 5a

Title: SURFACE MOUNTED AND SCANNING...

Inventors: Neil J. Goldfine, et al.
Replacement Sheet

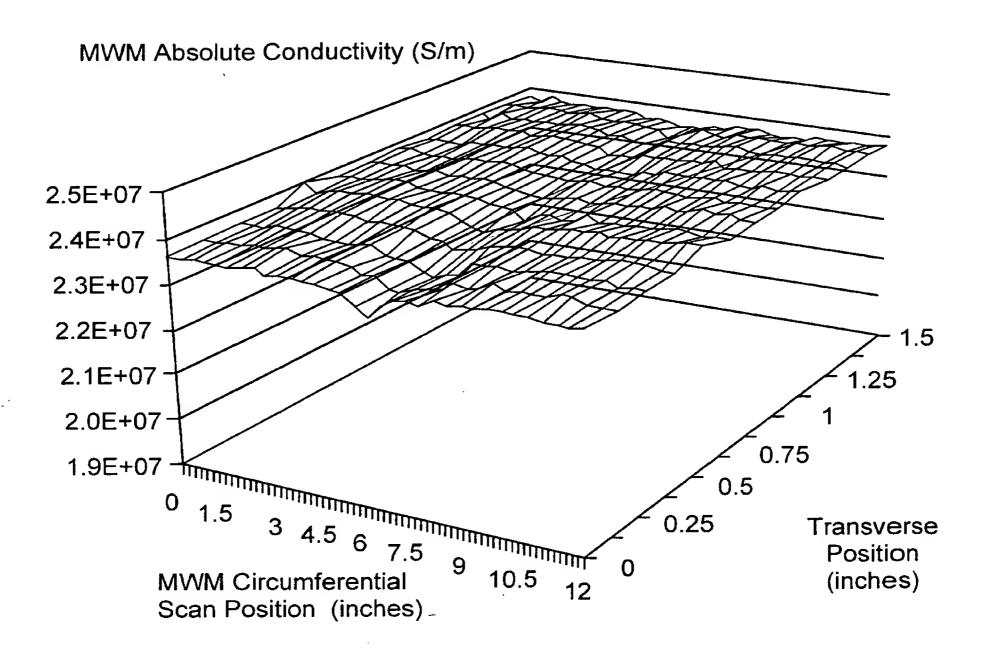
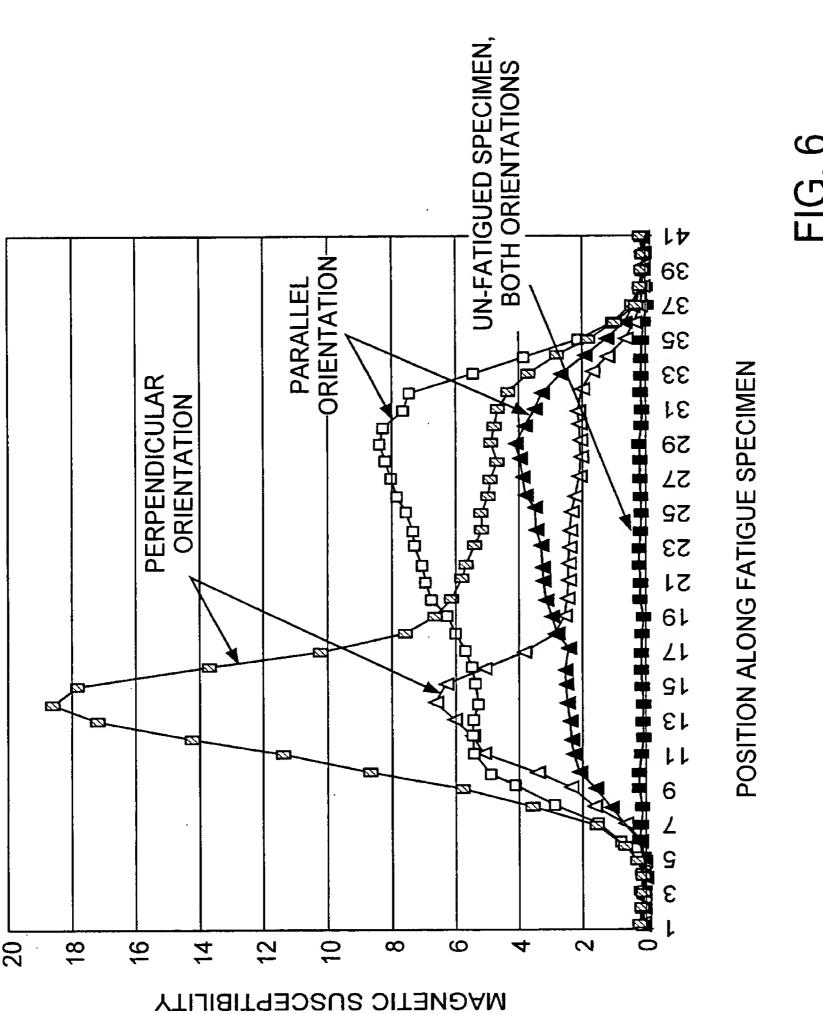


FIG. 5b

Title: SURFACE MOUNTED AND SCANNING...

Inventors:

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Title: SURFACE MOUNTED AND SCANNING...

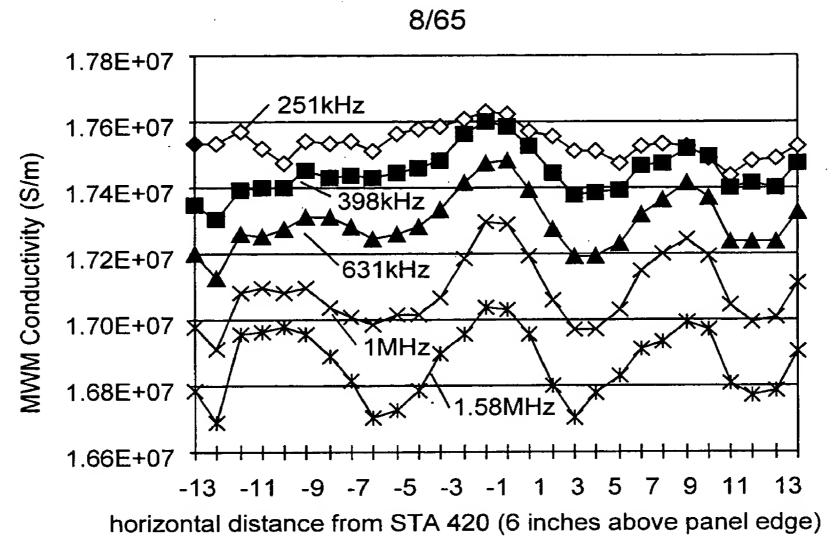


FIG. 7a

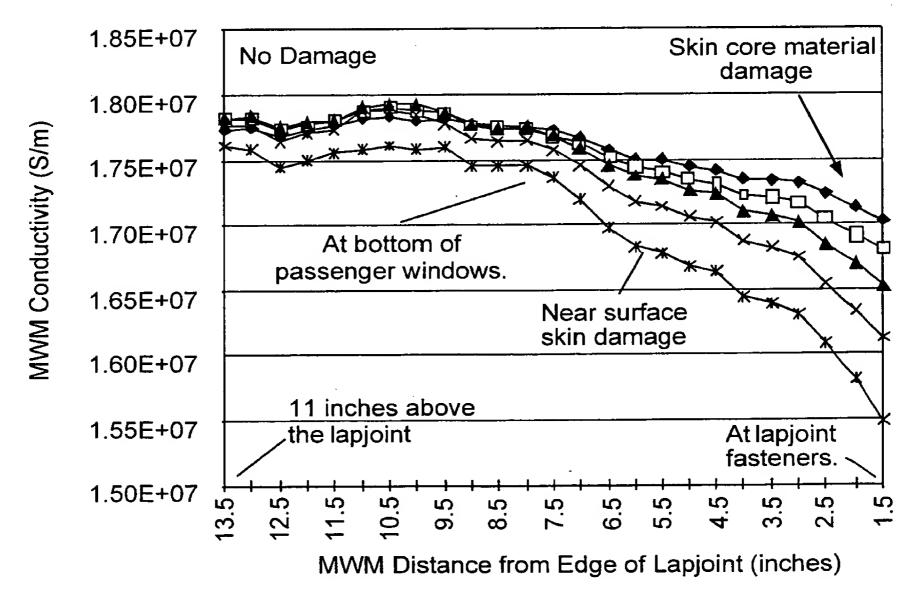


FIG. 7b

Title: SURFACE MOUNTED AND SCANNING...

Inventors: Neil J. Goldfine, et al.
Replacement Sheet

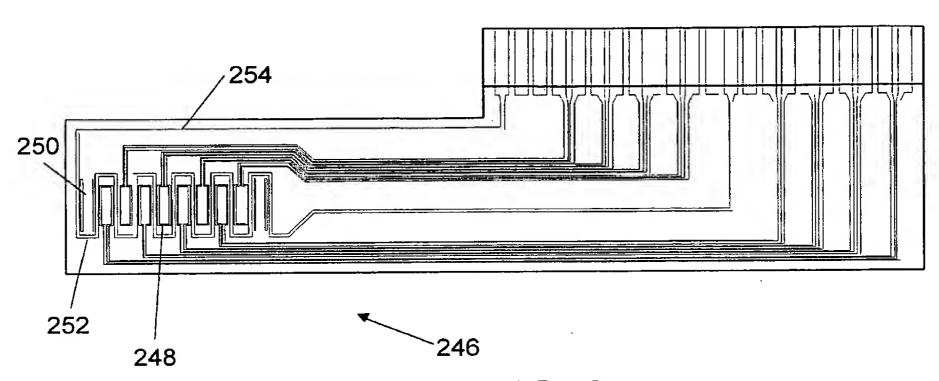


FIG. 8a

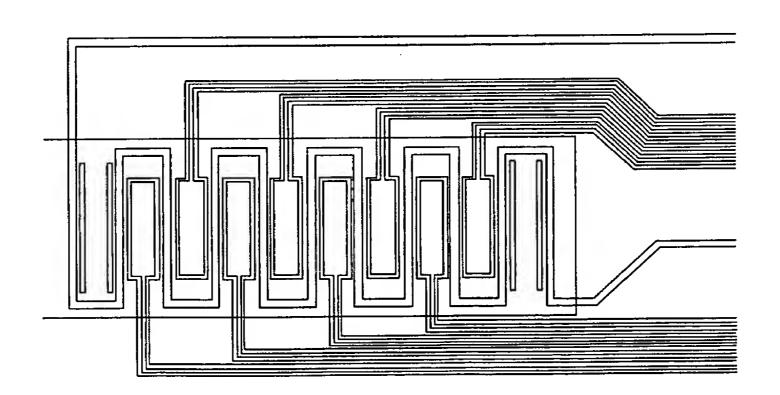
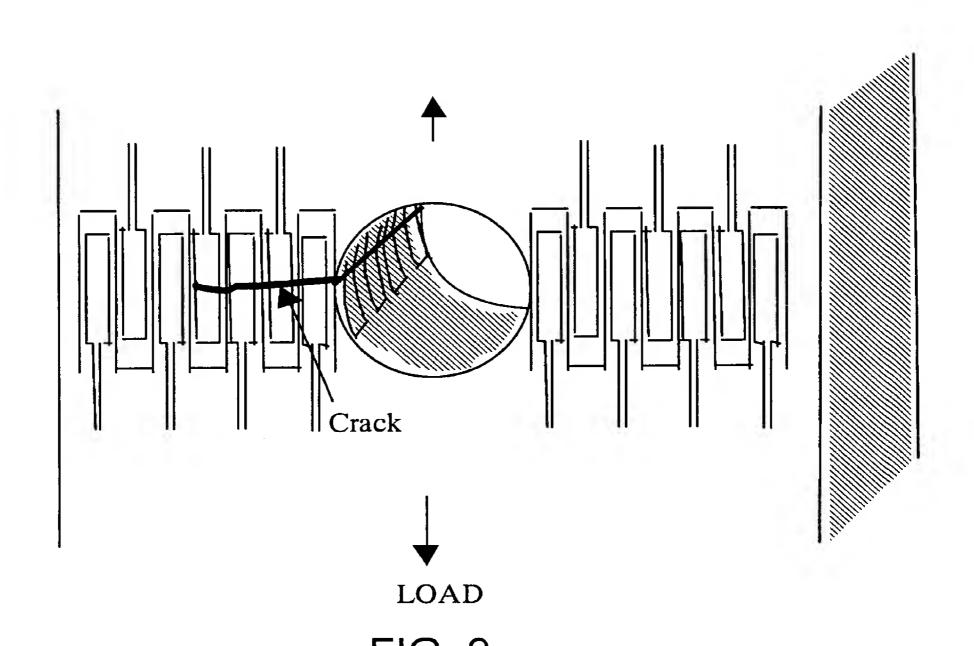


FIG. 8b

Title: SURFACE MOUNTED AND SCANNING...

Inventors:

Neil J. Goldfine, et al. Replacement Sheet



Title: SURFACE MOUNTED AND SCANNING...

Inventors:

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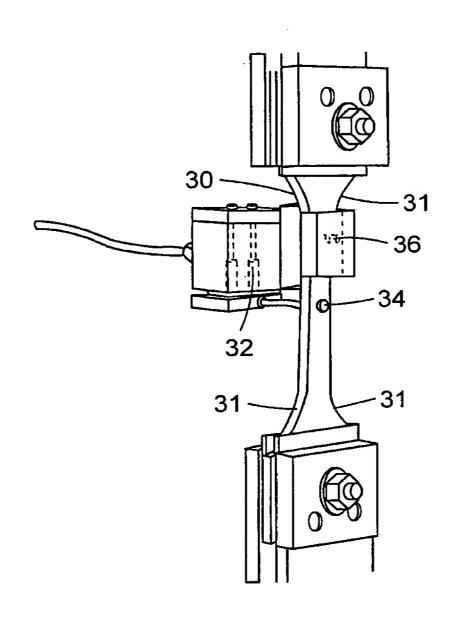


FIG. 10

Title: SURFACE MOUNTED AND SCANNING...

Inventors: Neil J. Goldfine, et al.
Replacement Sheet

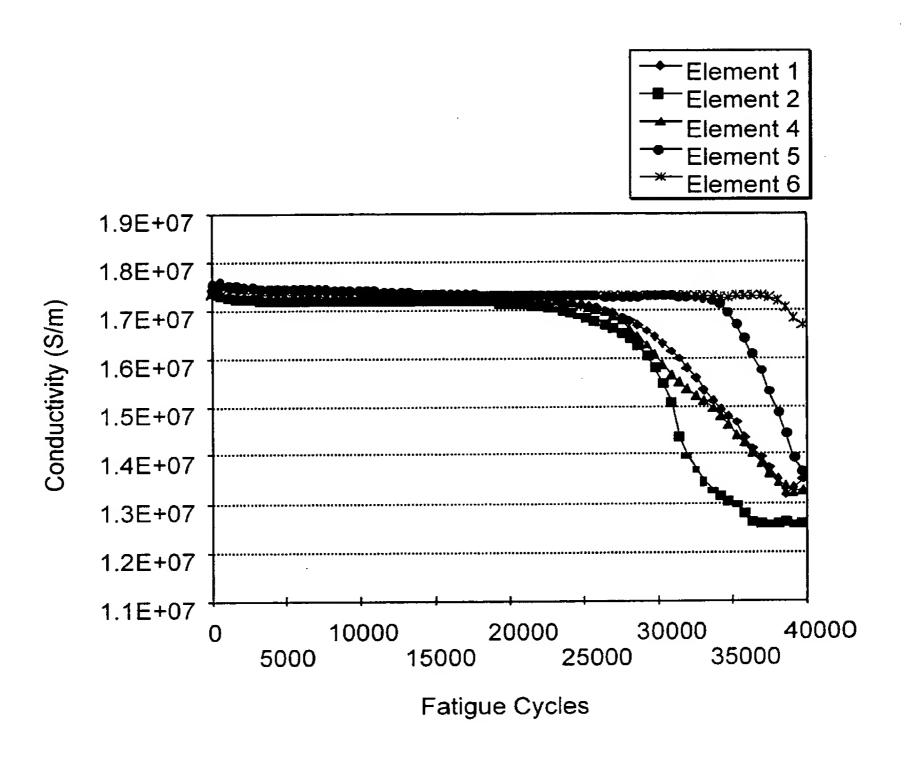


FIG. 11a

Title: SURFACE MOUNTED AND SCANNING...

Inventors: Neil J. Goldfine, et al.
Replacement Sheet

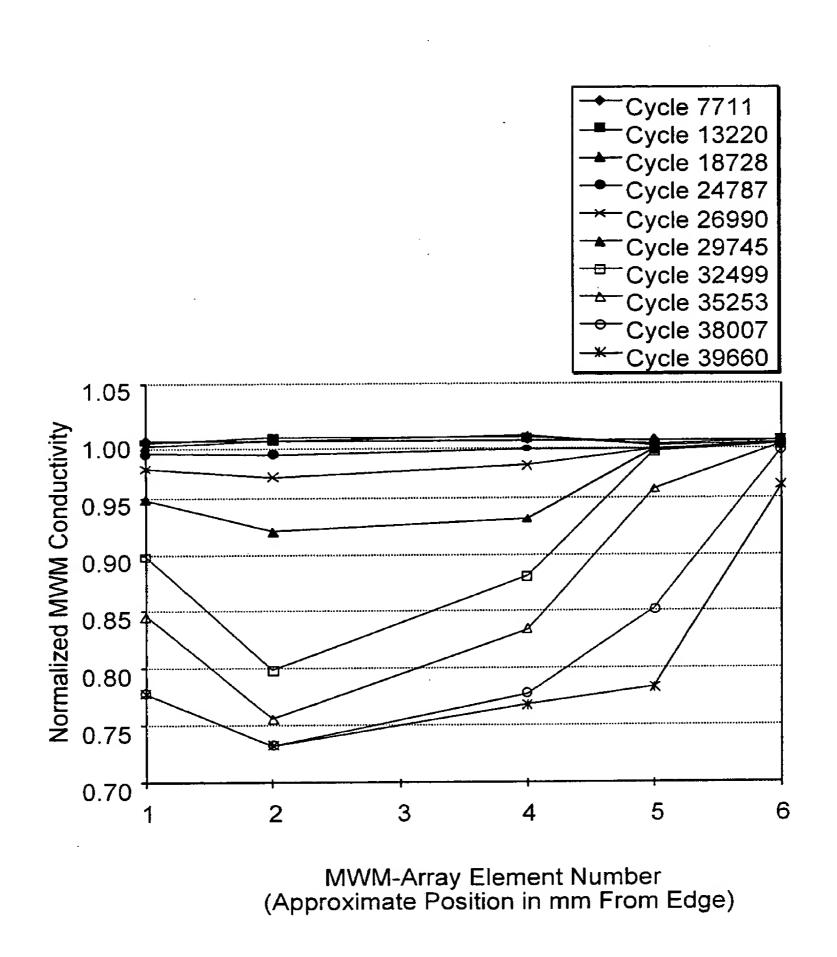
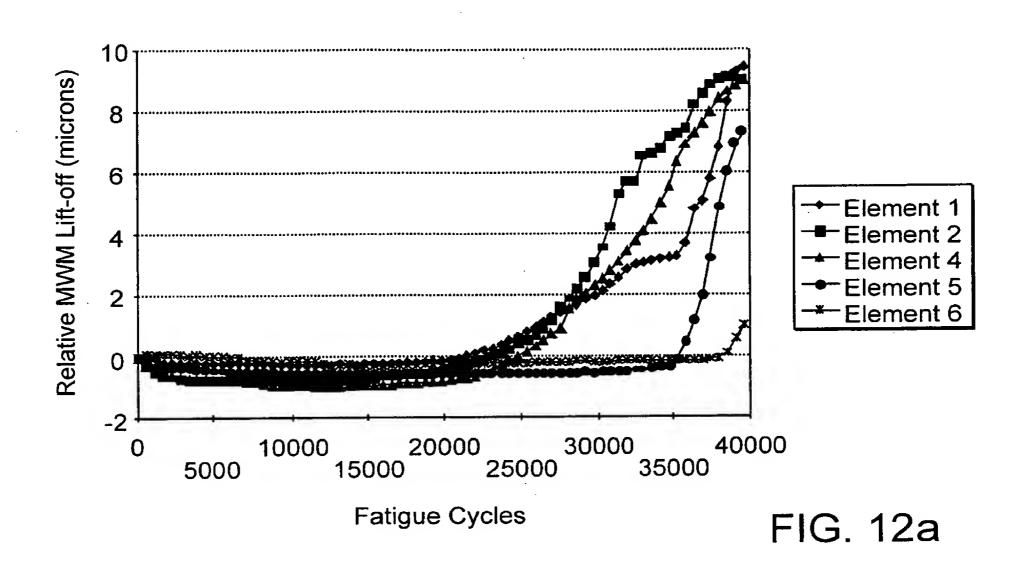


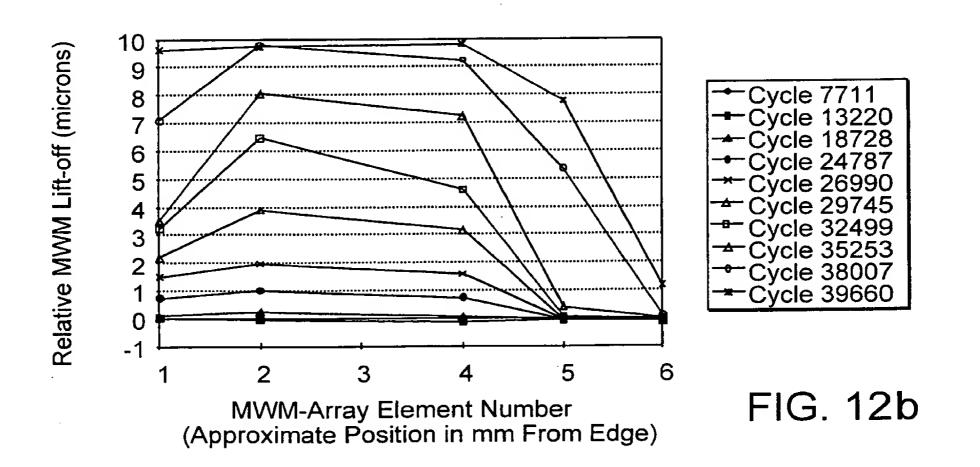
FIG. 11b

Title: SURFACE MOUNTED AND SCANNING...

Inventors:

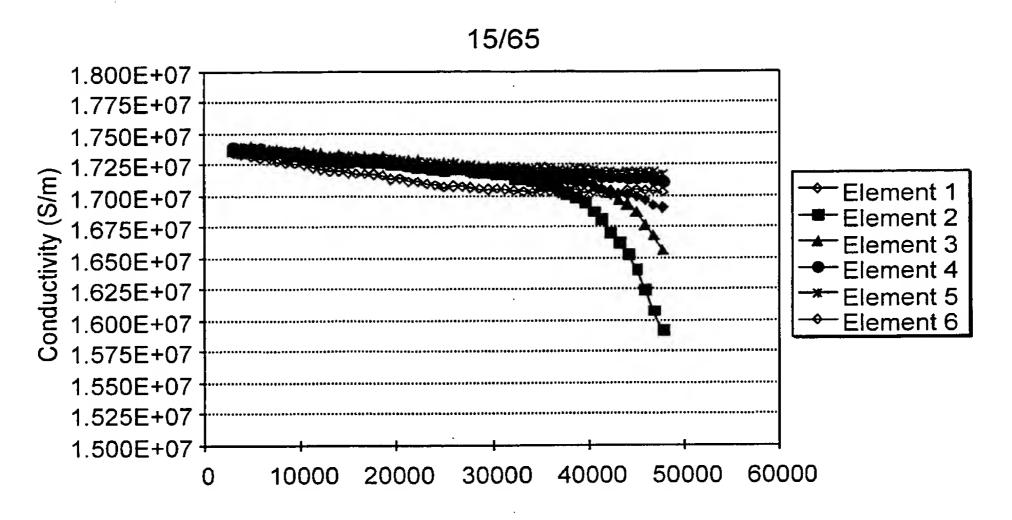
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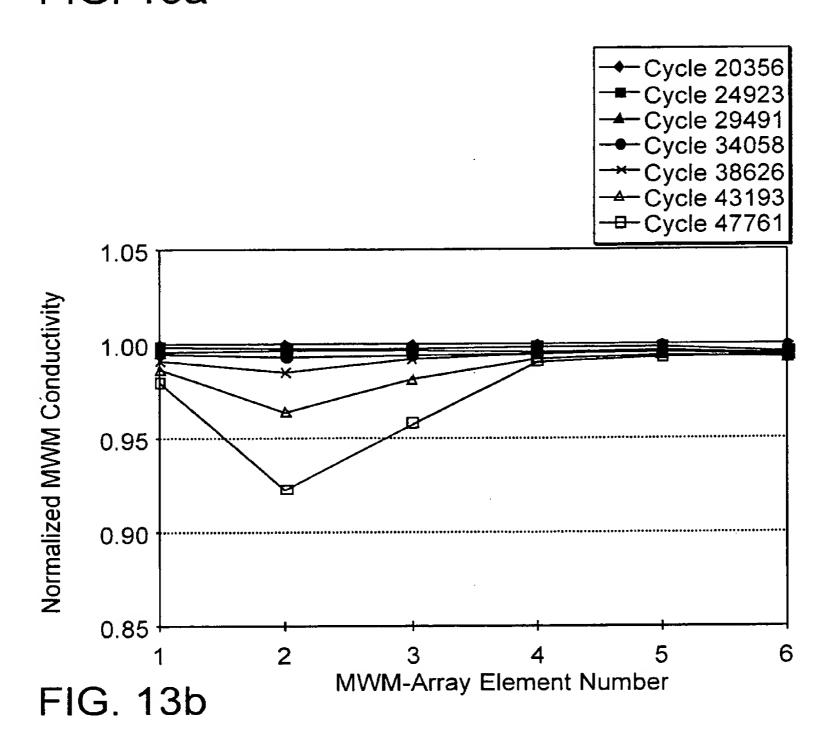
Title: SURFACE MOUNTED AND SCANNING...

Inventors: Neil J. Goldfine, et al.
Replacement Sheet



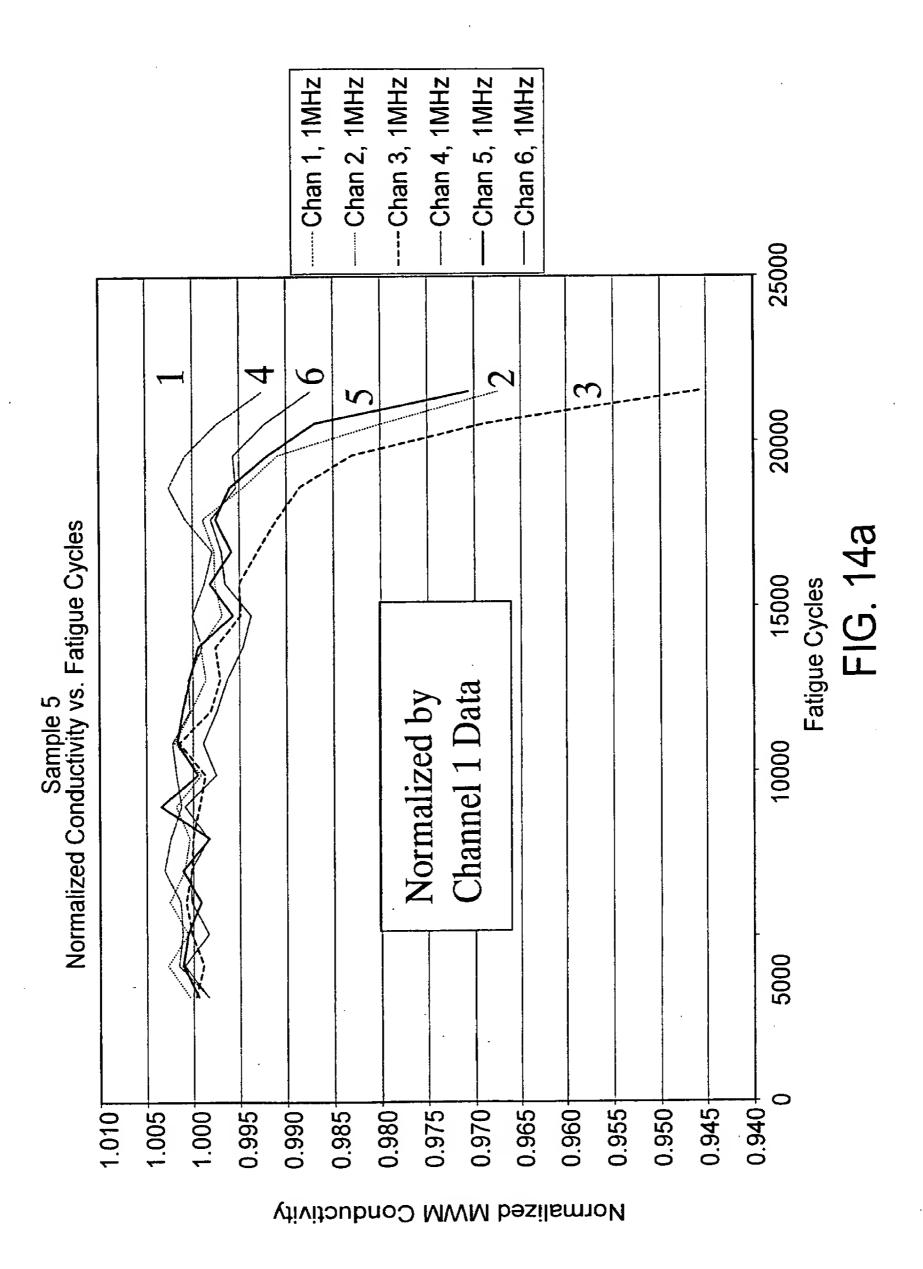
Fatigue Cycles

FIG. 13a



Title: SURFACE MOUNTED AND SCANNING...

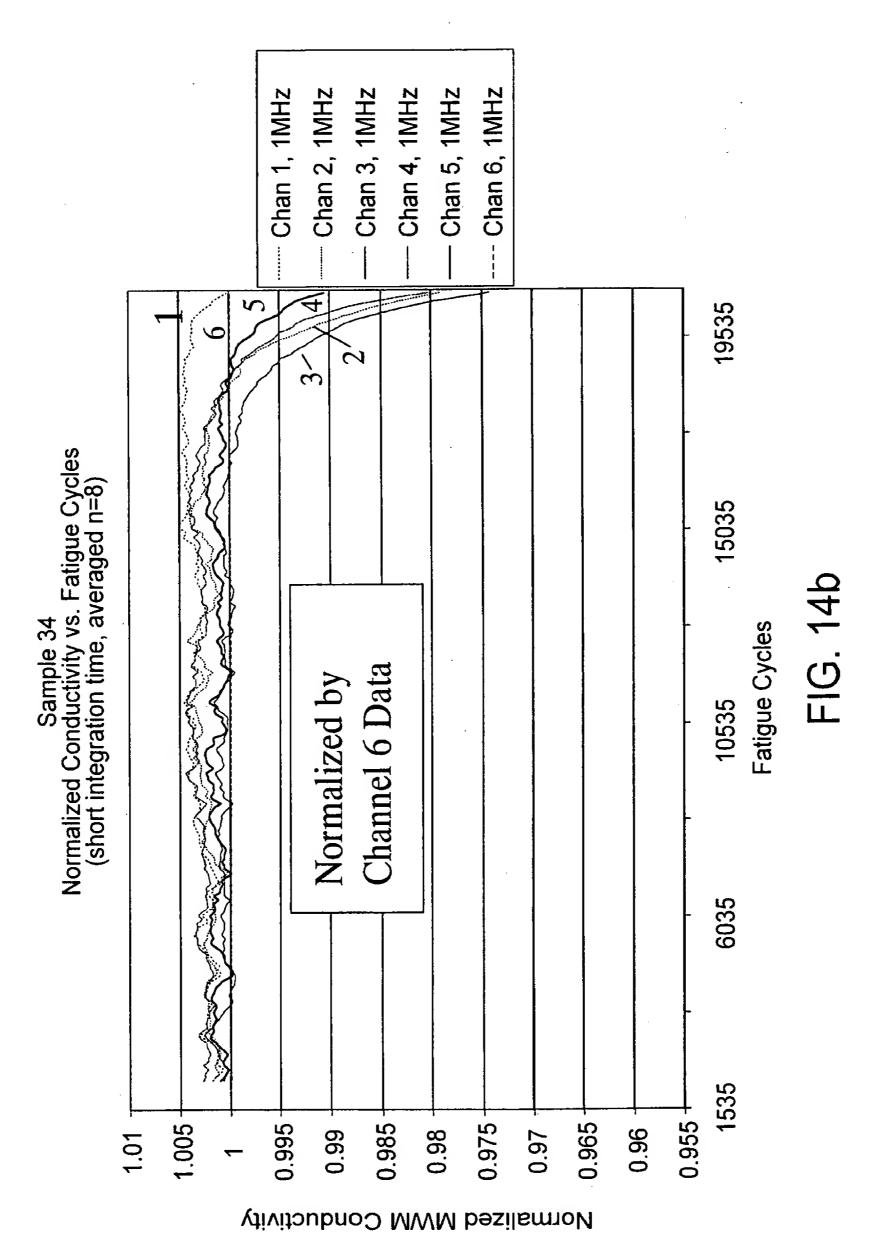
16/65



Title: SURFACE MOUNTED AND SCANNING...

Inventors: Neil

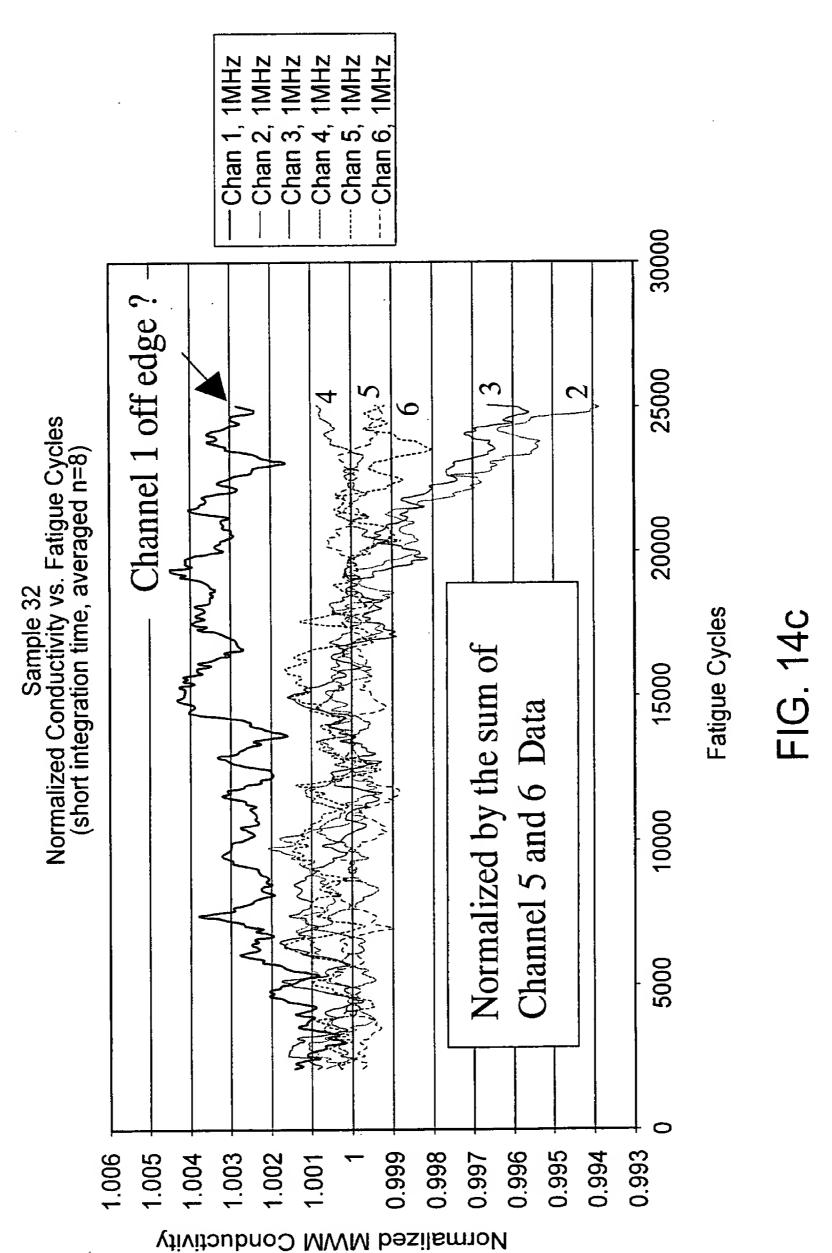
17/65



Title: SURFACE MOUNTED AND SCANNING...

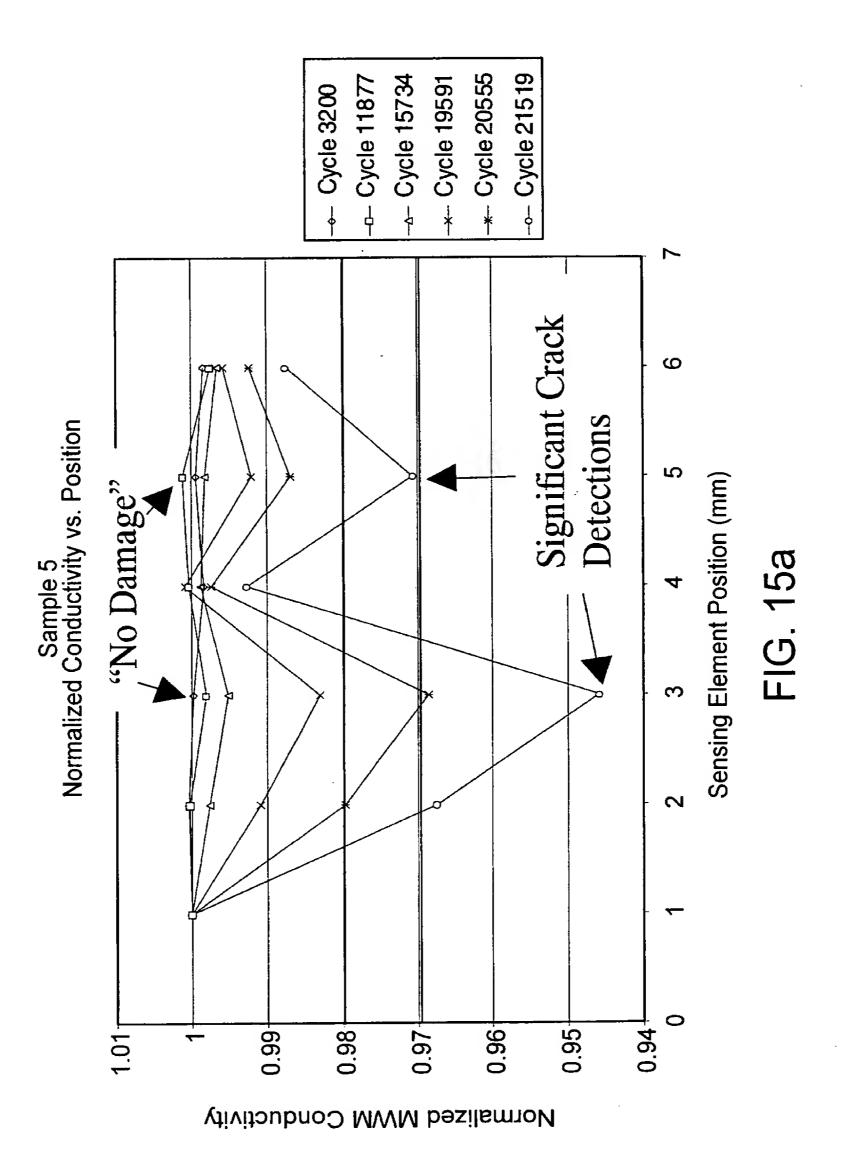
Inventors:





Title: SURFACE MOUNTED AND SCANNING...

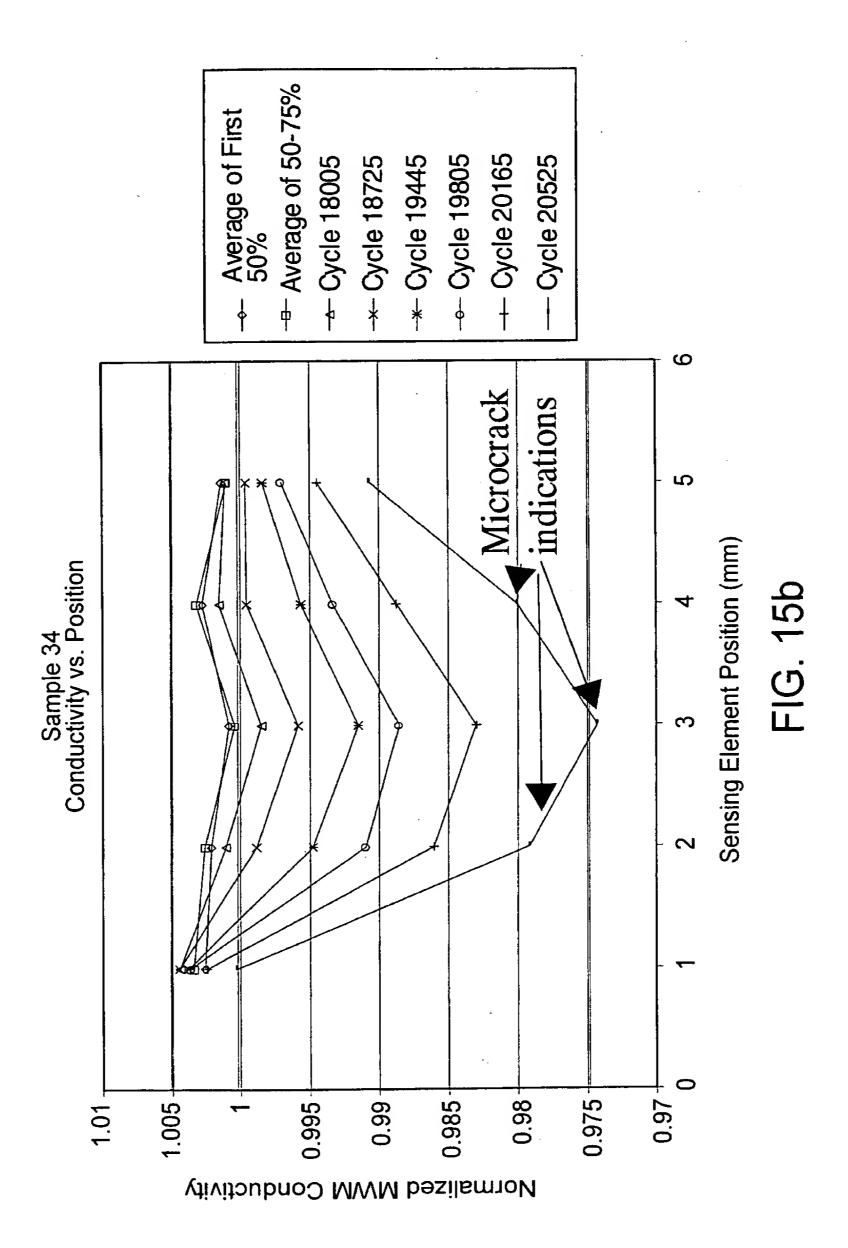
19/65



Title: SURFACE MOUNTED AND SCANNING...

Inventors:

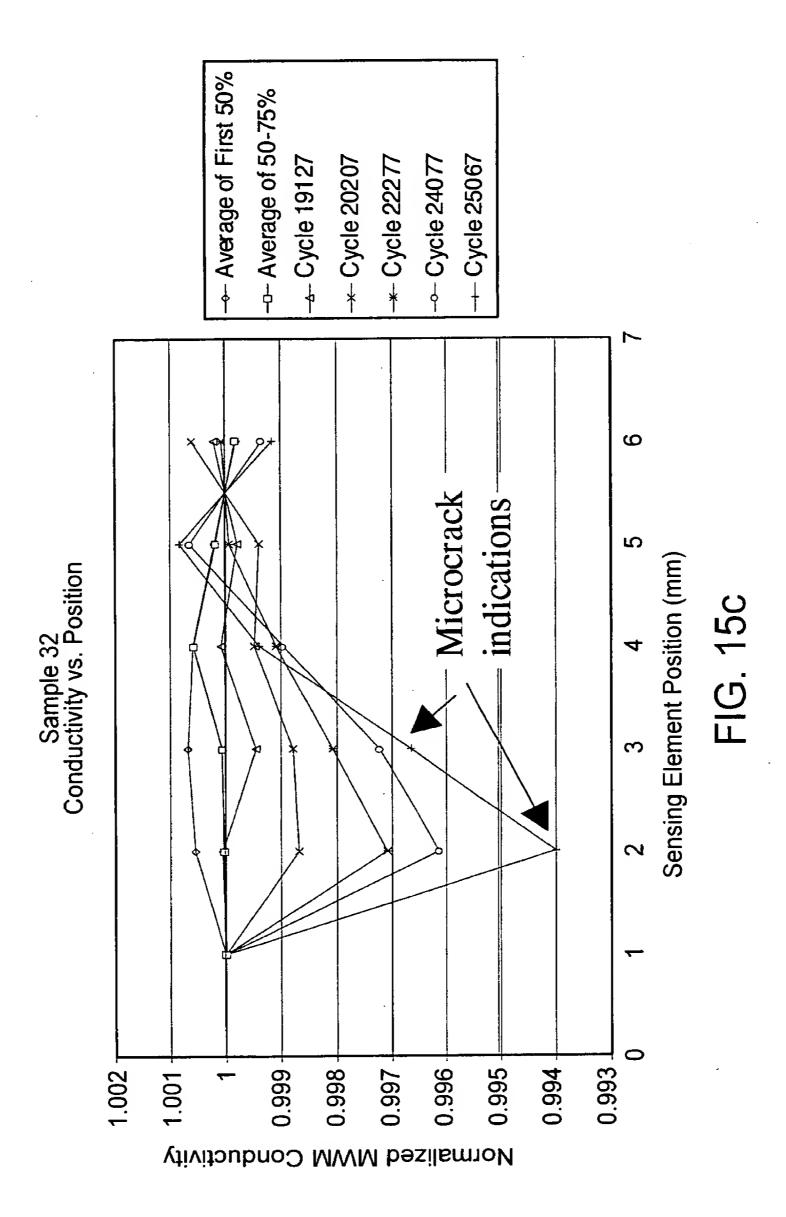
20/65



Title: SURFACE MOUNTED AND SCANNING...

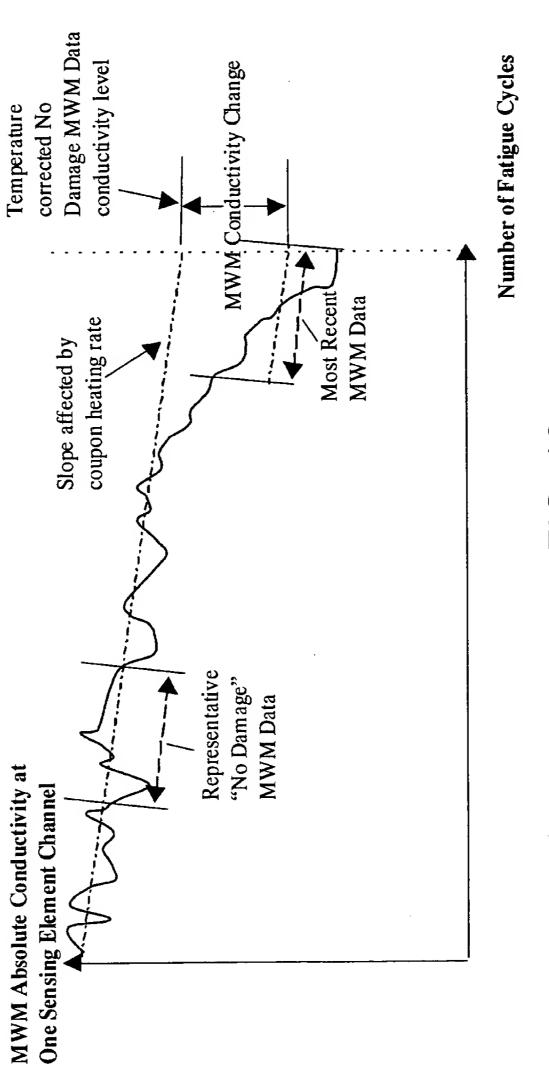
Inventors:

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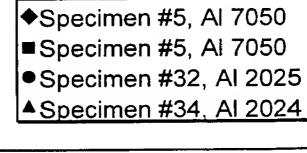


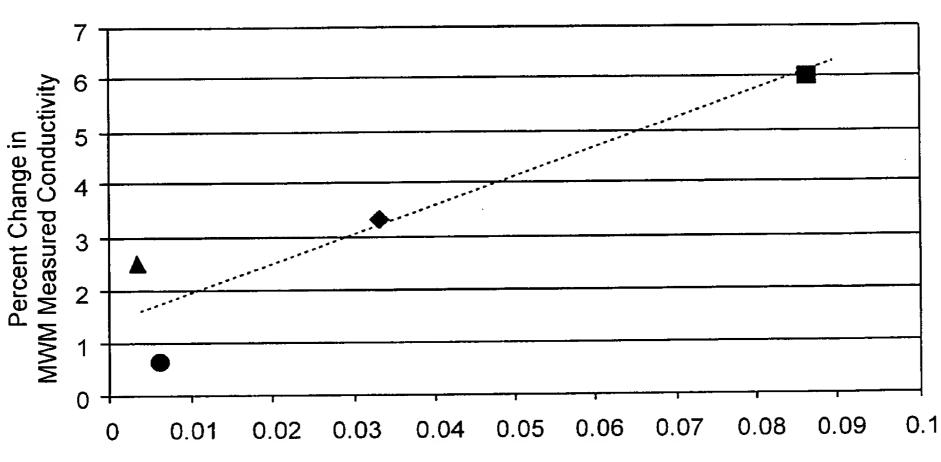
09/666,524 Appl'n No.:

Title: SURFACE MOUNTED AND SCANNING...

Inventors:

Neil J. Goldfine, et al. Replacement Sheet



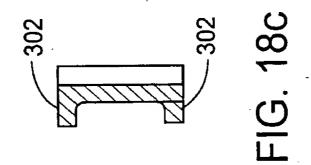


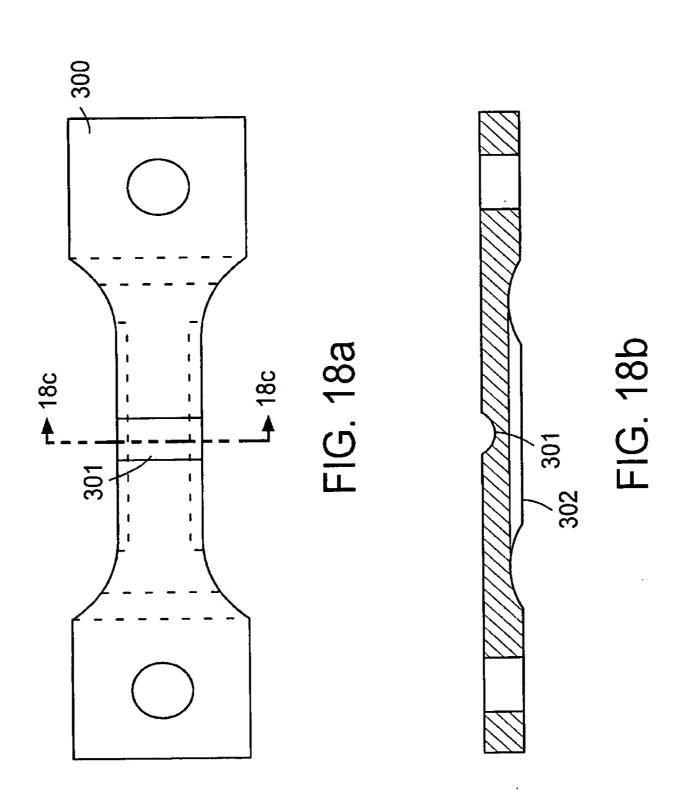
Estimated Crack Length from SEM Surface or SEM Fractographic Examinations (inches)

Appl'n No.: 09/666,524
Title: SURFACE MOUNTED AND SCANNING...

Neil J. Goldfine, et al. Inventors: Replacement Sheet

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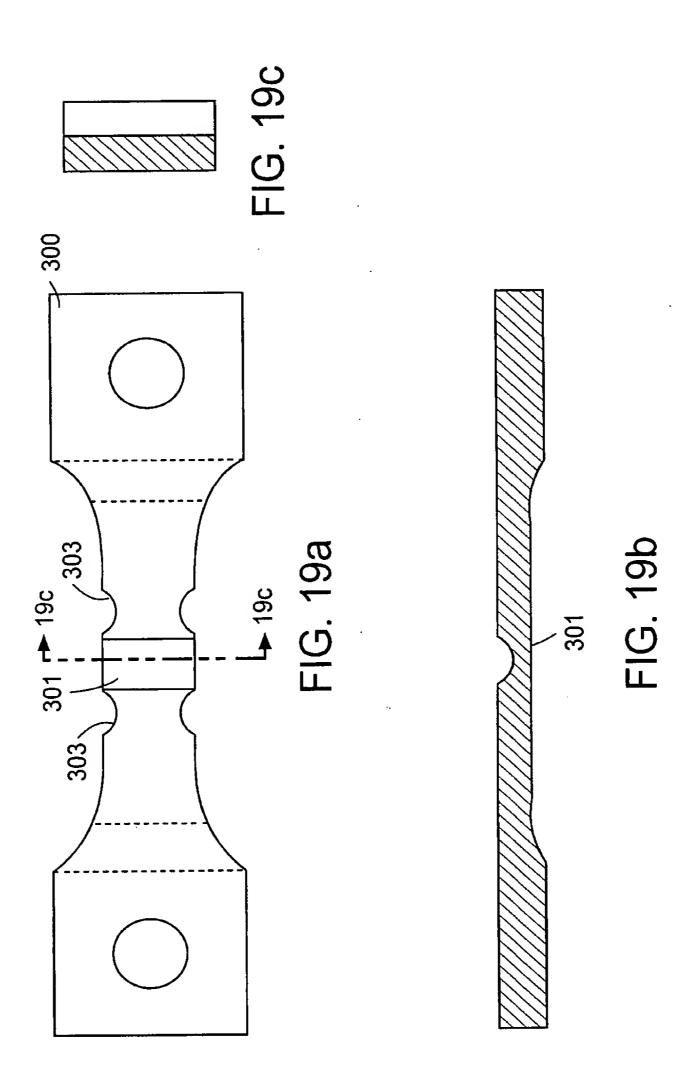




Title: SURFACE MOUNTED AND SCANNING...

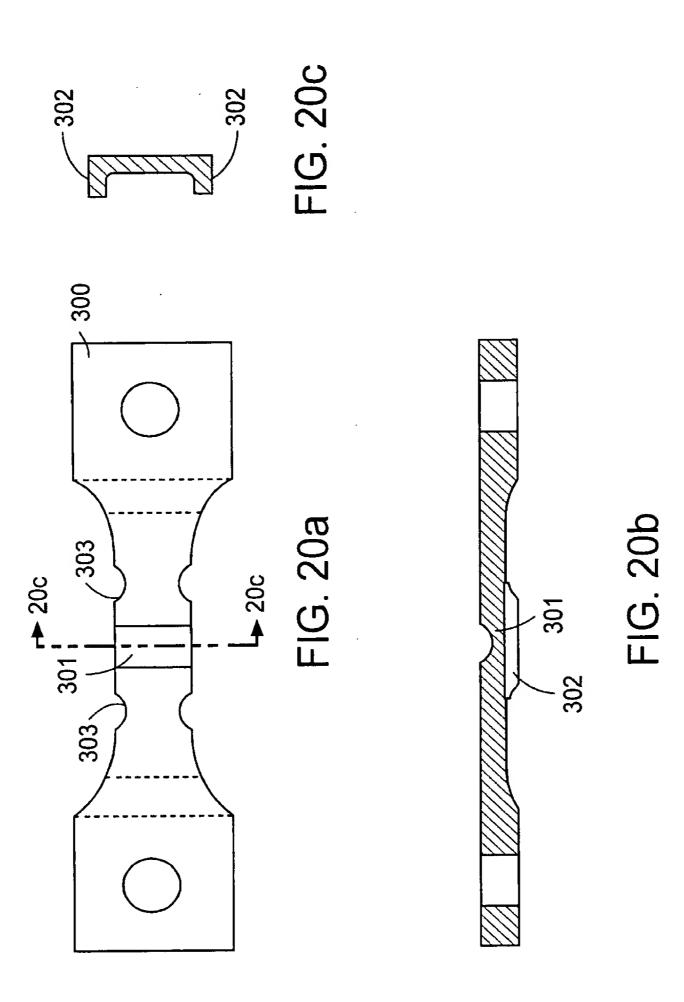
Inventors:

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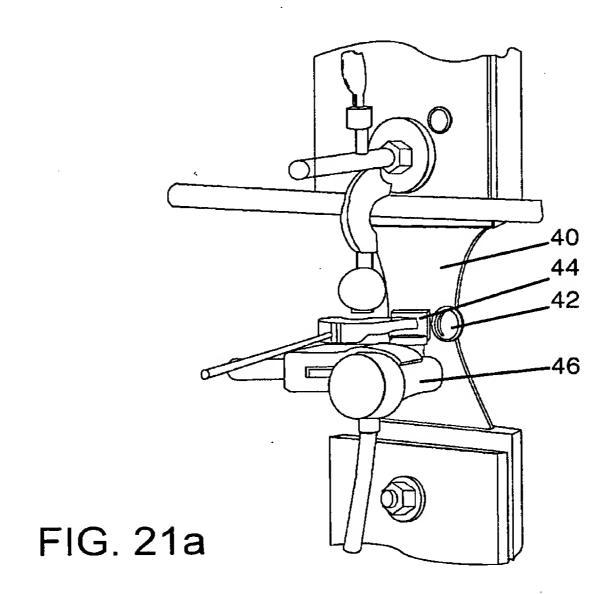
Title: SURFACE MOUNTED AND SCANNING...

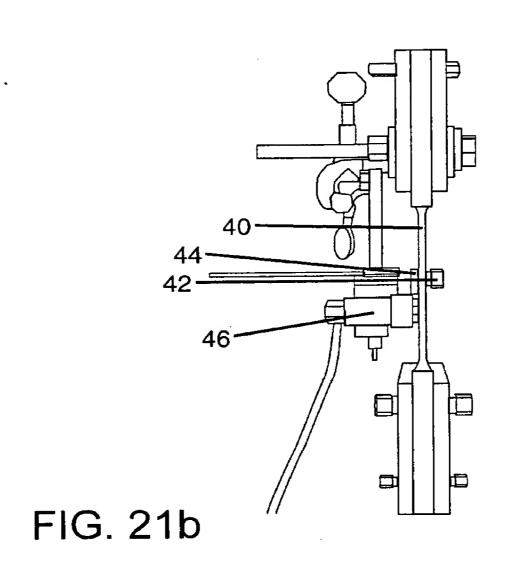
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Title: SURFACE MOUNTED AND SCANNING...

Inventors: Neil J. Goldfine, et al.
Replacement Sheet

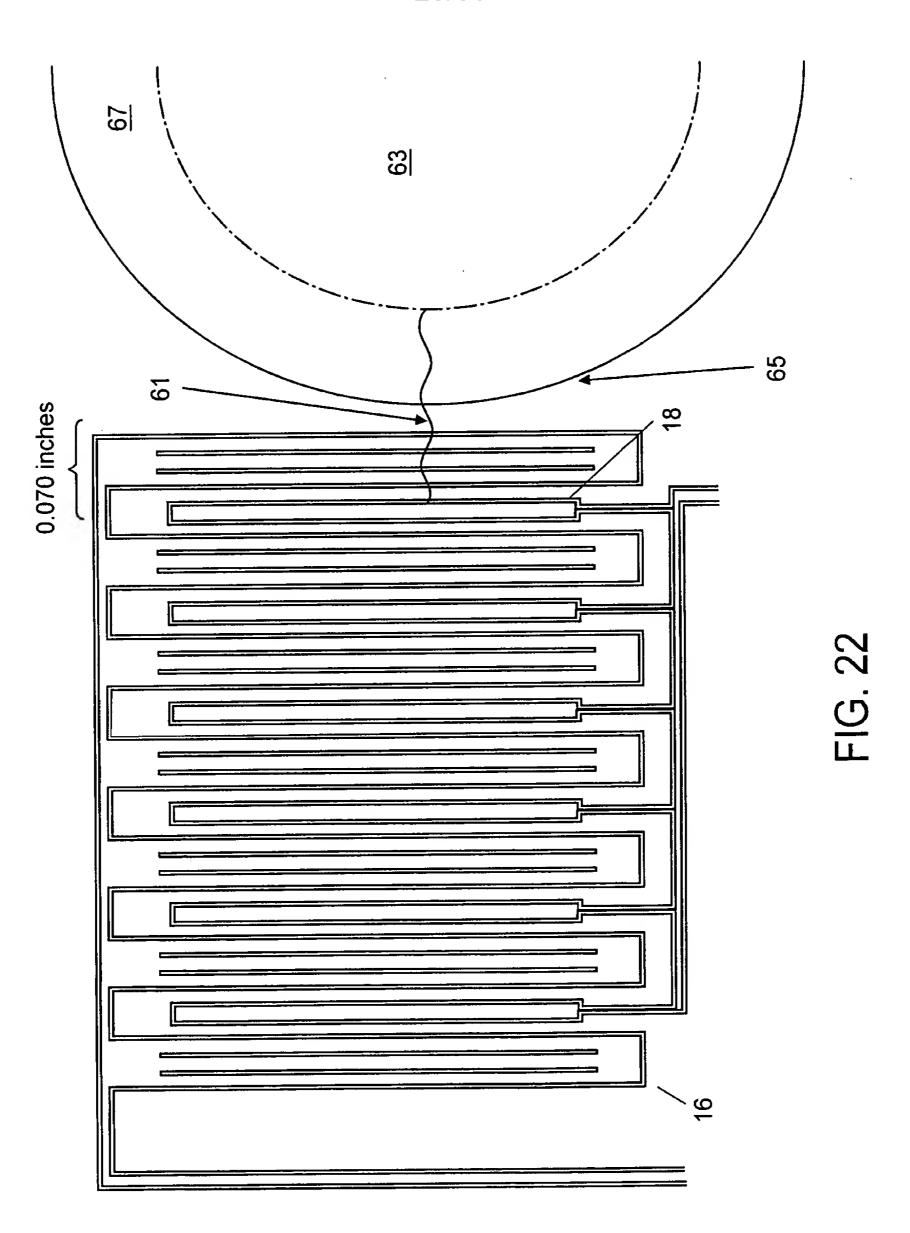




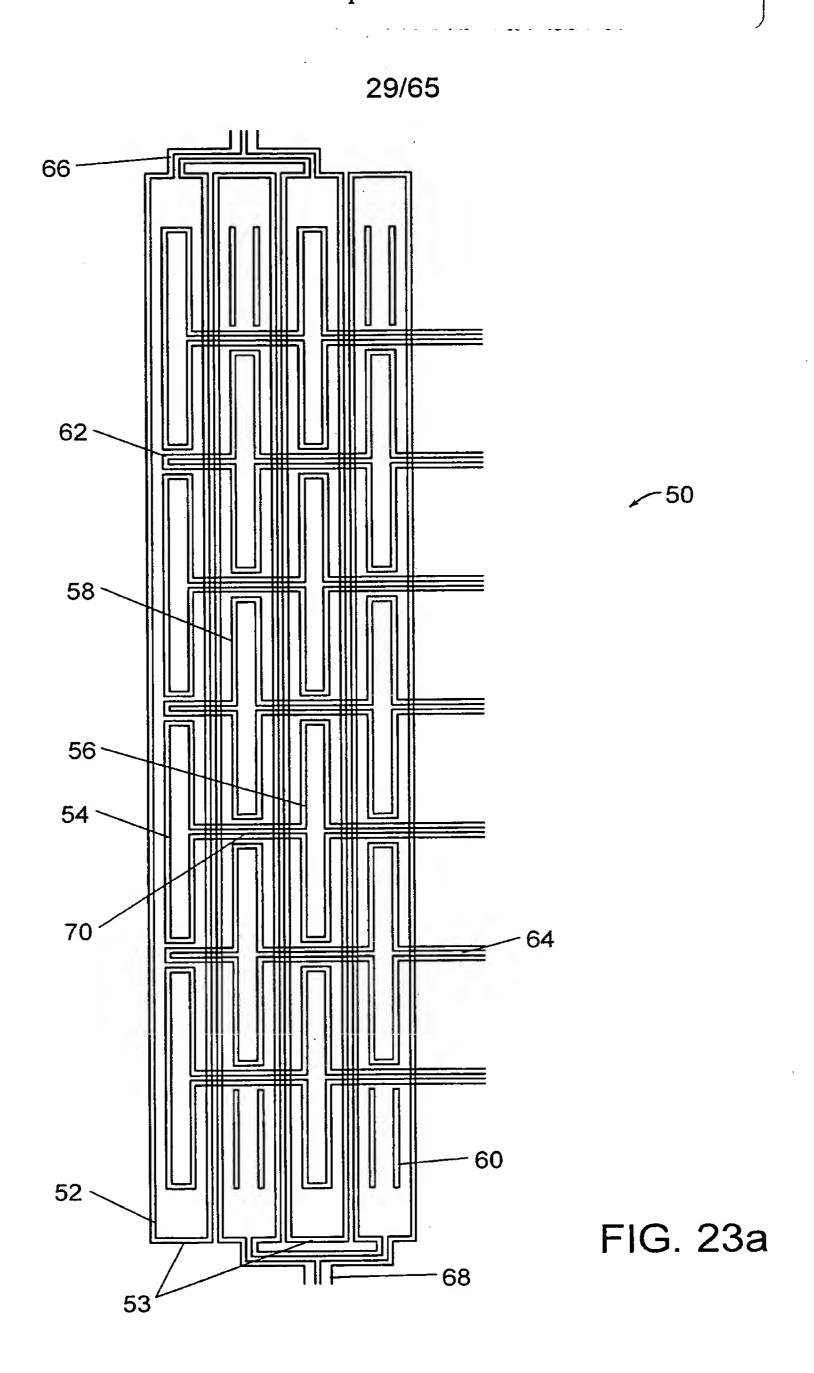
Appl'n No.: 09/666,524
Title: SURFACE MOUNTED AND SCANNING...

Inventors:

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Title: SURFACE MOUNTED AND SCANNING...



Title: SURFACE MOUNTED AND SCANNING...

Inventors: Neil J. Goldfine, et al.
Replacement Sheet

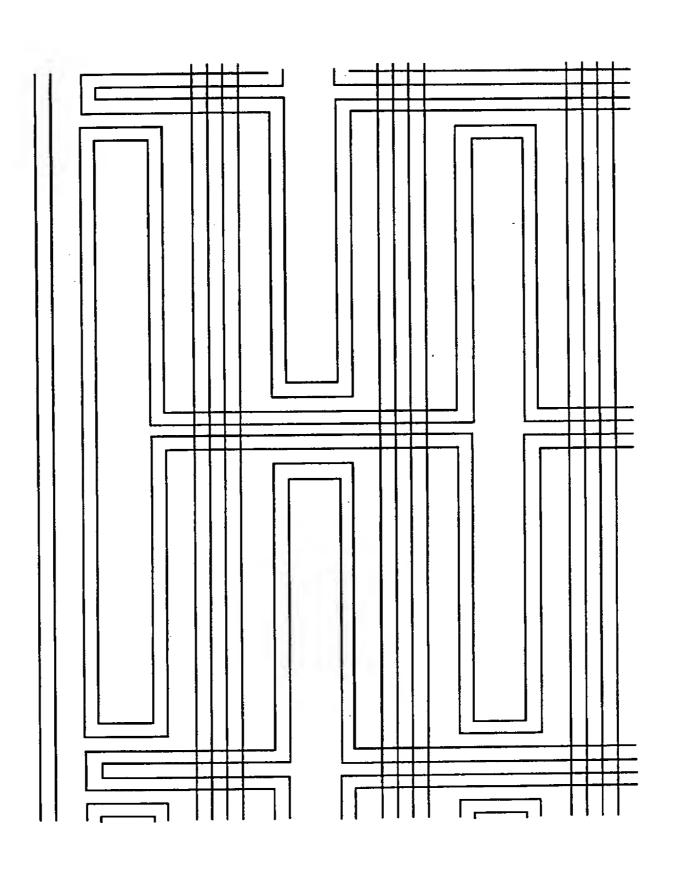


FIG. 23b

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Title: SURFACE MOUNTED AND SCANNING...

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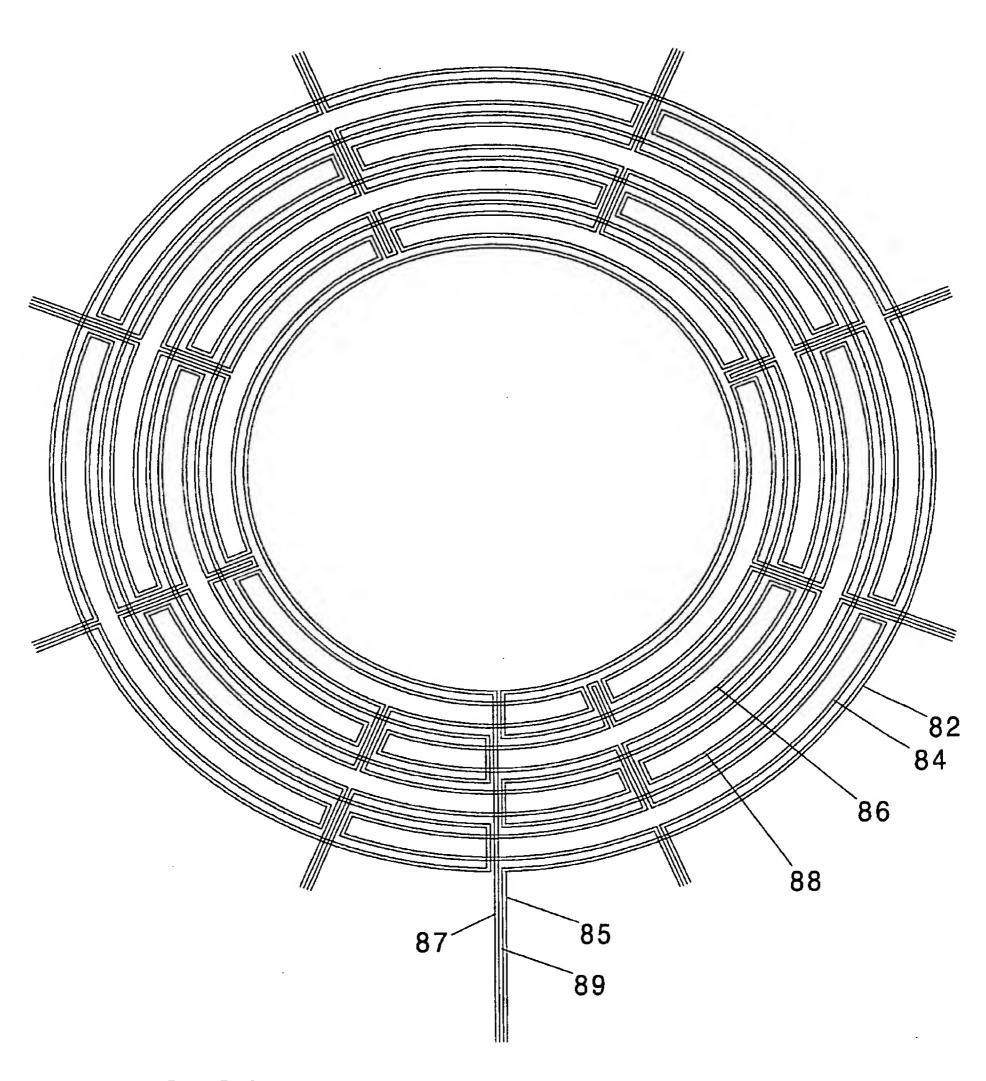


FIG. 24a

Title: SURFACE MOUNTED AND SCANNING...

Inventors: Neil J. Goldfine, et al.
Replacement Sheet

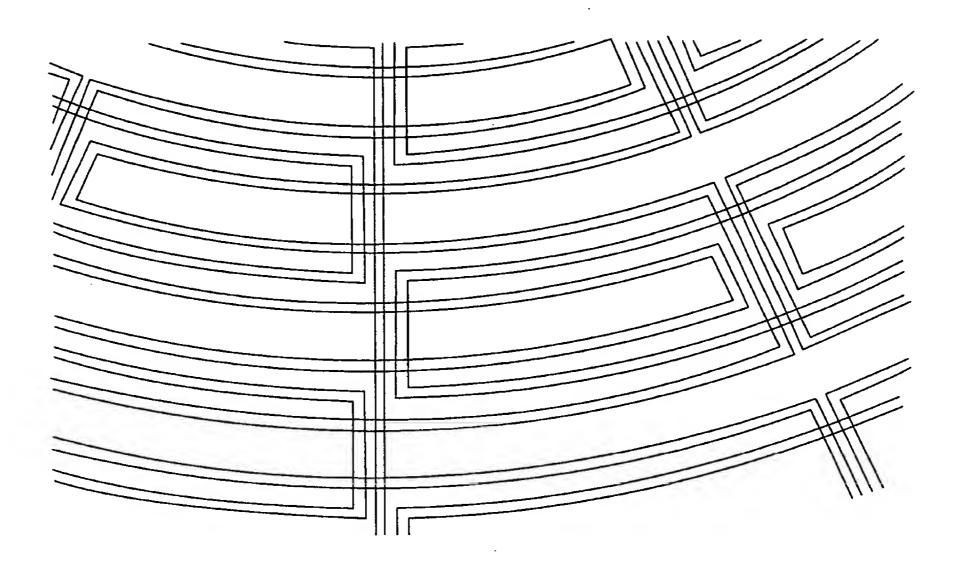


FIG. 24b

Title: SURFACE MOUNTED AND SCANNING...

Inventors: Neil J. Goldfine, et al.
Replacement Sheet

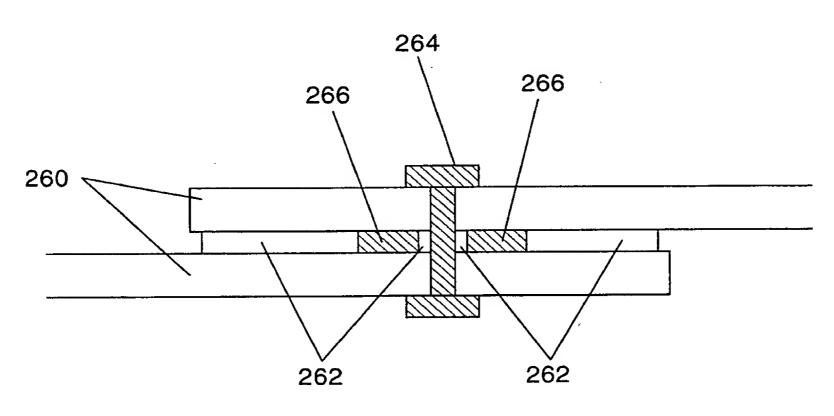


FIG. 25

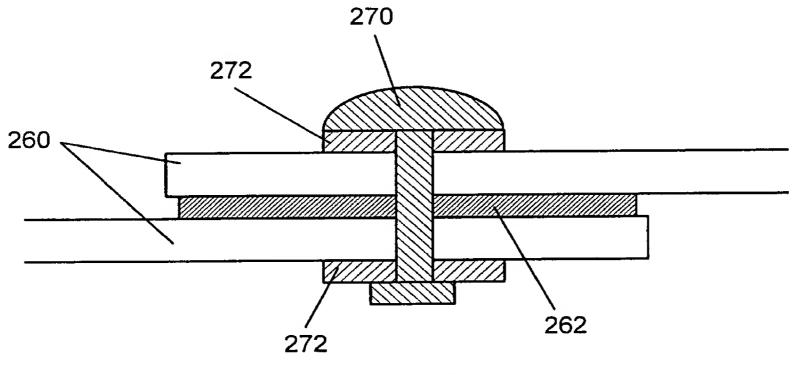


FIG. 26

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Title: SURFACE MOUNTED AND SCANNING...

Inventors: Neil J. Goldfine, et al. Replacement Sheet

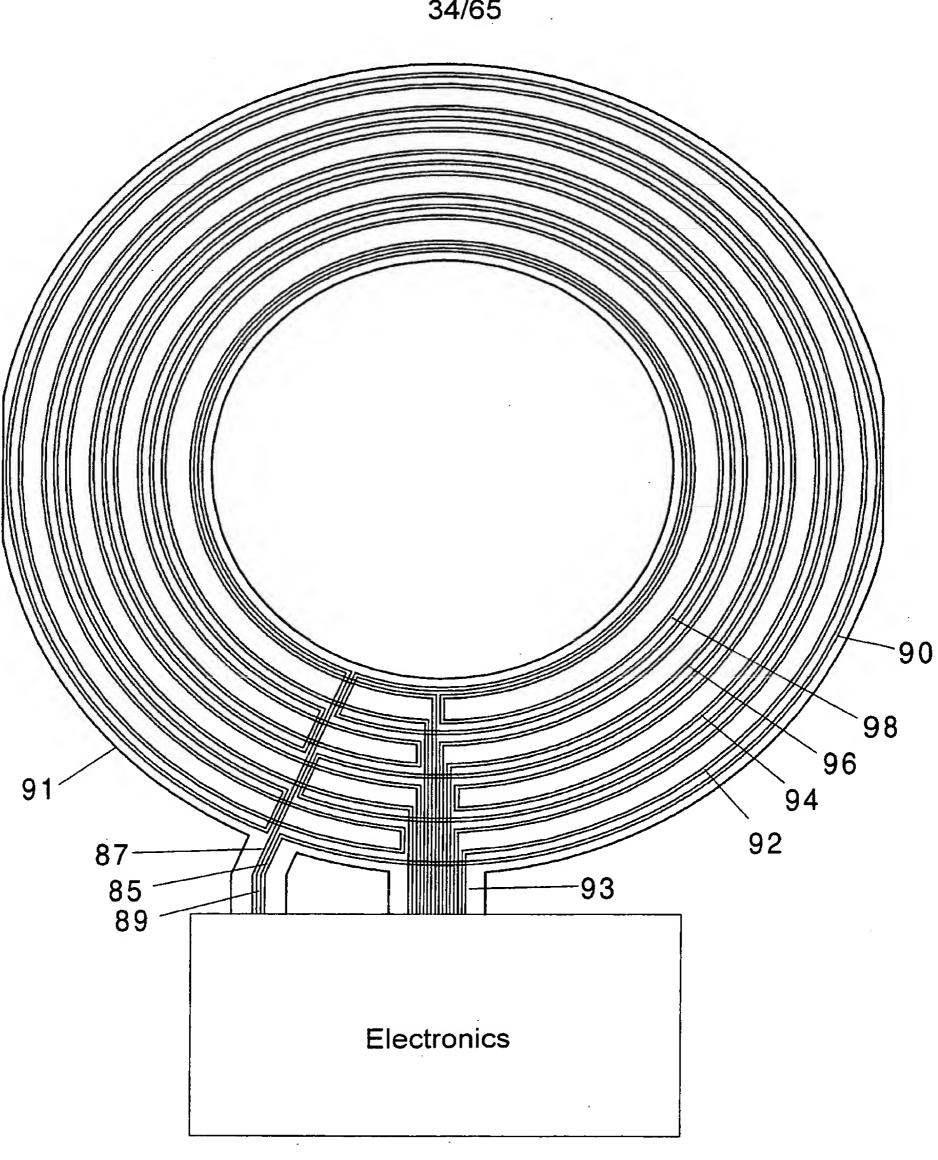


FIG. 27a

Title: SURFACE MOUNTED AND SCANNING...

Inventors: Neil J. Goldfine, et al.
Replacement Sheet

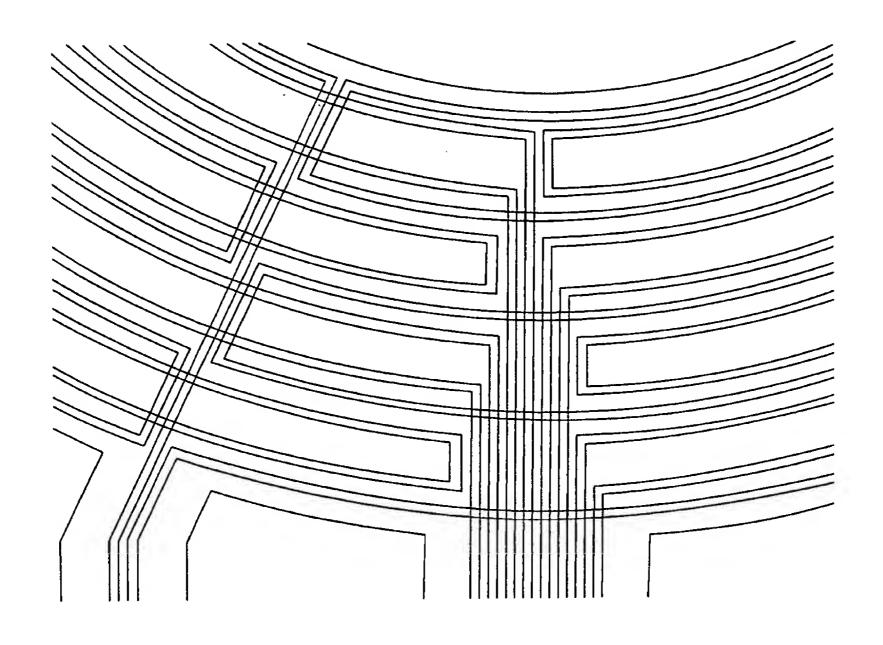
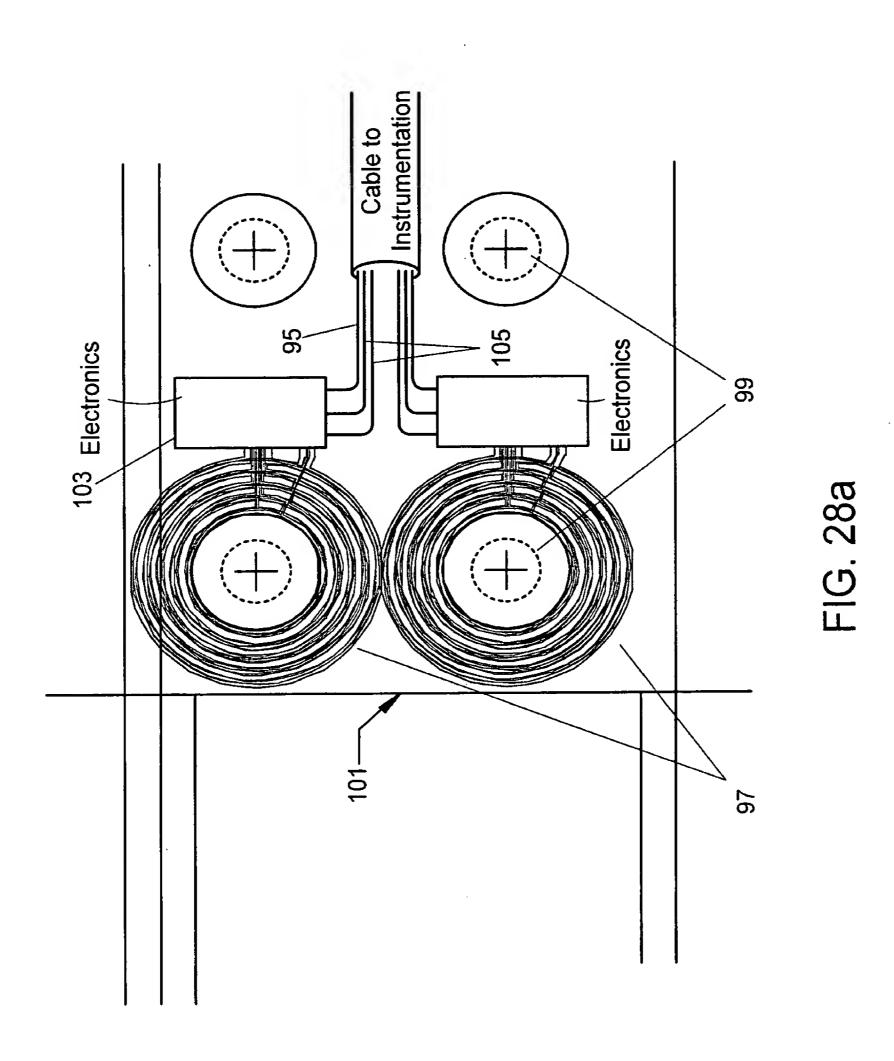


FIG. 27b

Title: SURFACE MOUNTED AND SCANNING...

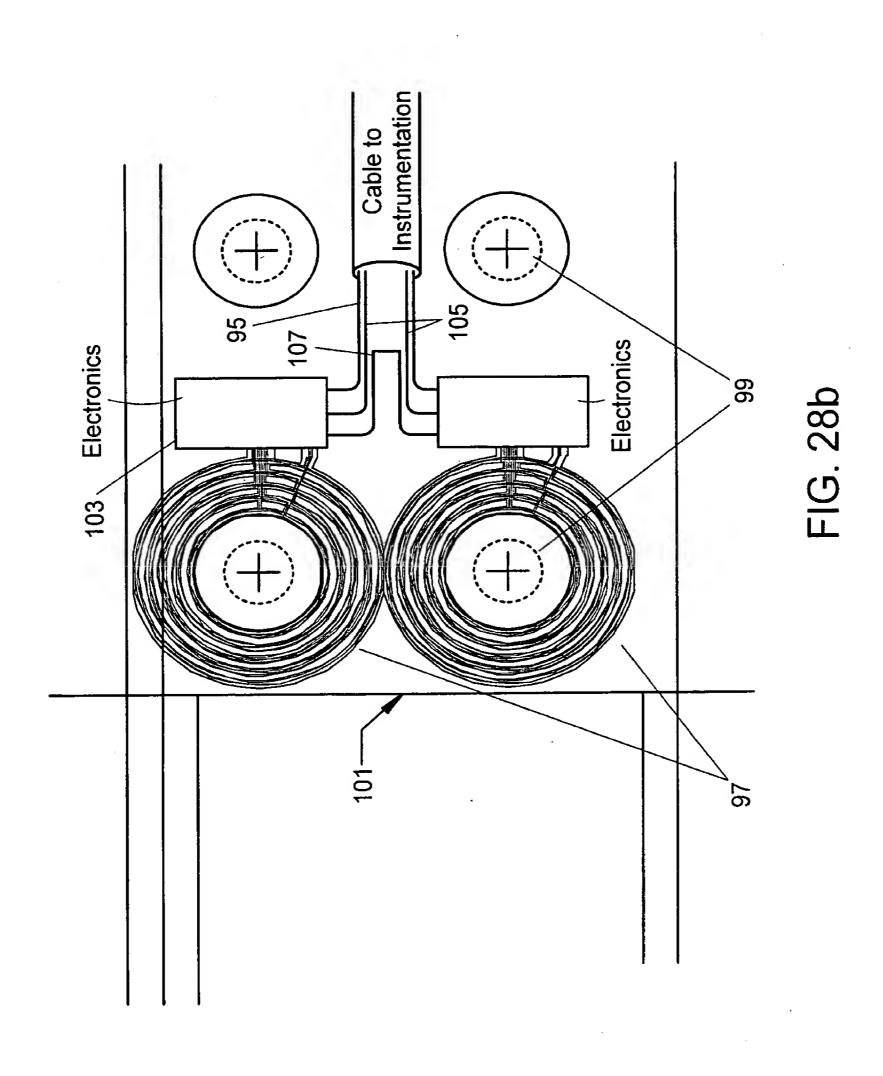
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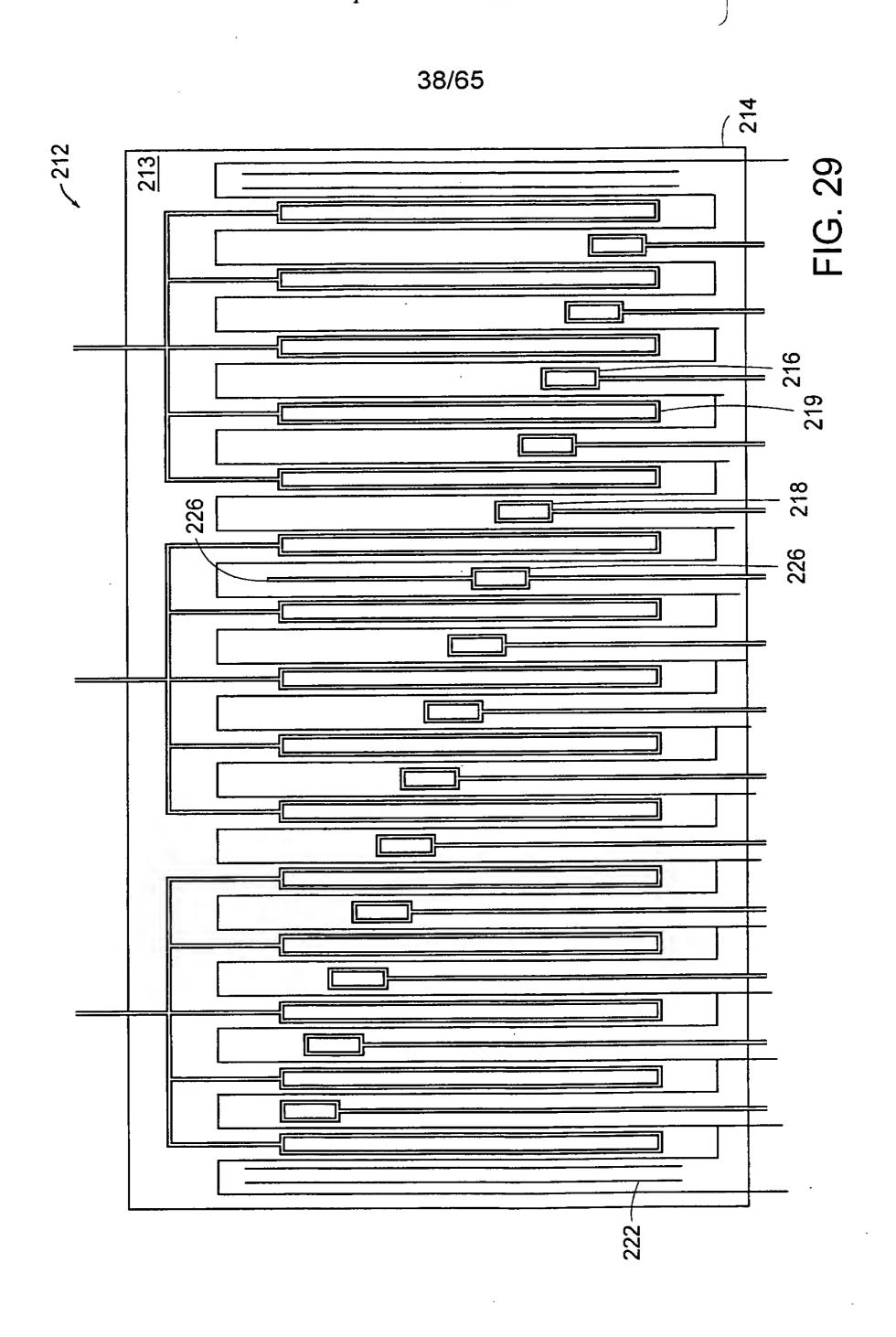
Title: SURFACE MOUNTED AND SCANNING...

Inventors: Neil J. Gold

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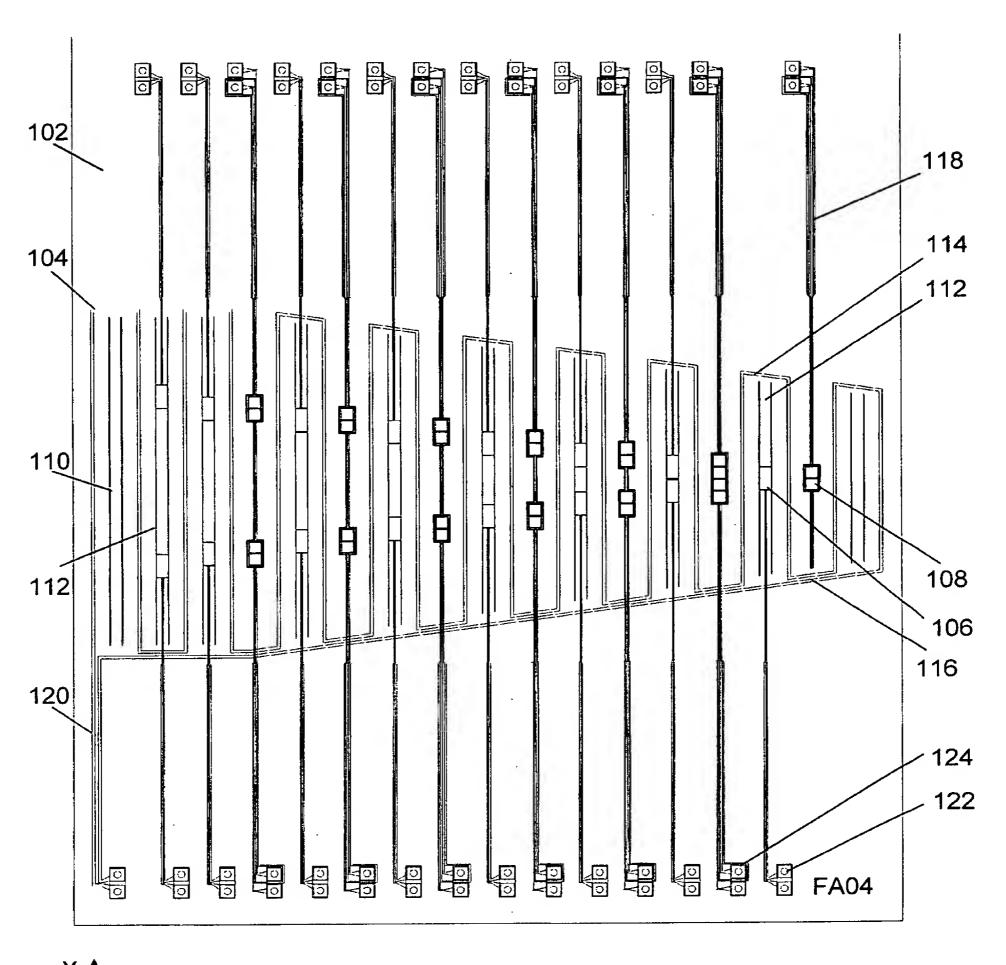


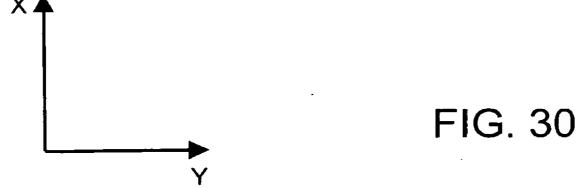
Title: SURFACE MOUNTED AND SCANNING...



Title: SURFACE MOUNTED AND SCANNING...

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Appl'n No.: 09/666,524 Title: SURFACE MOUNTED AND SCANNING...

Neil J. Goldfine, et al. Inventors: Replacement Sheet

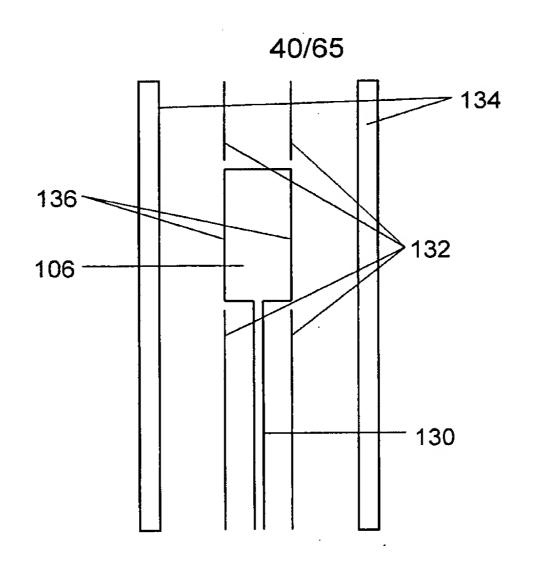


FIG. 31

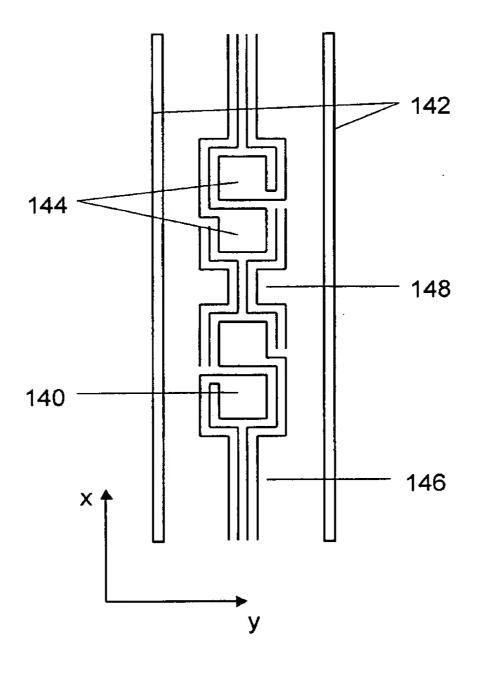
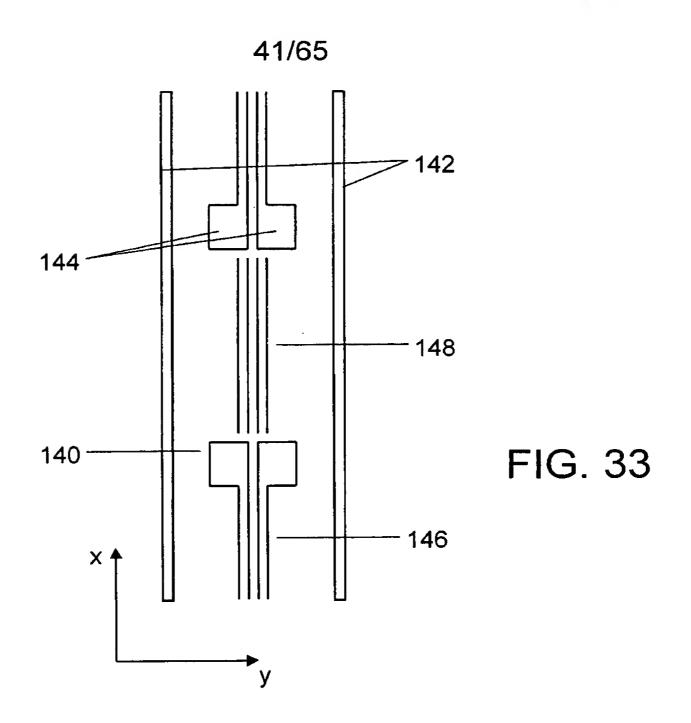


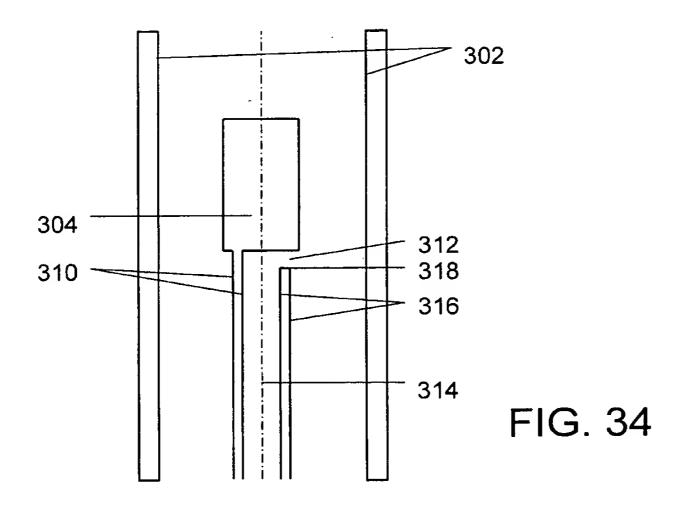
FIG. 32

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Appl'n No.: 09/666,524 Title: SURFACE MOUNTED AND SCANNING...

Inventors:





Title: SURFACE MOUNTED AND SCANNING...

Inventors: Neil J. Goldfine, et al.
Replacement Sheet

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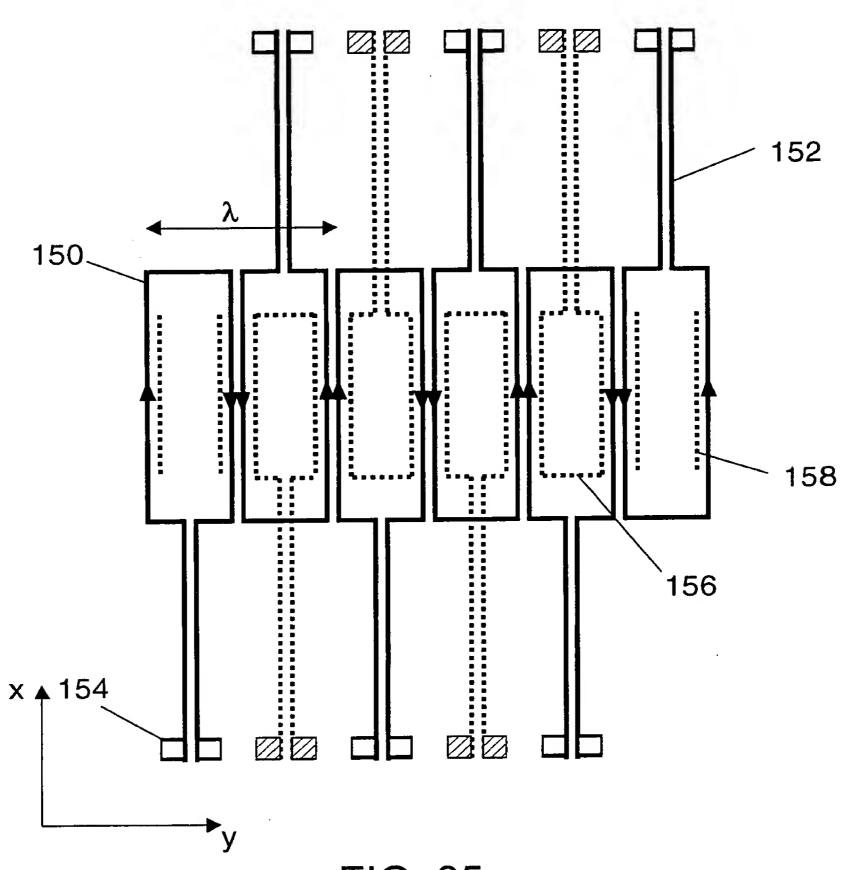


FIG. 35

Title: SURFACE MOUNTED AND SCANNING...

Inventors: Neil J. Goldfine, et al.
Replacement Sheet

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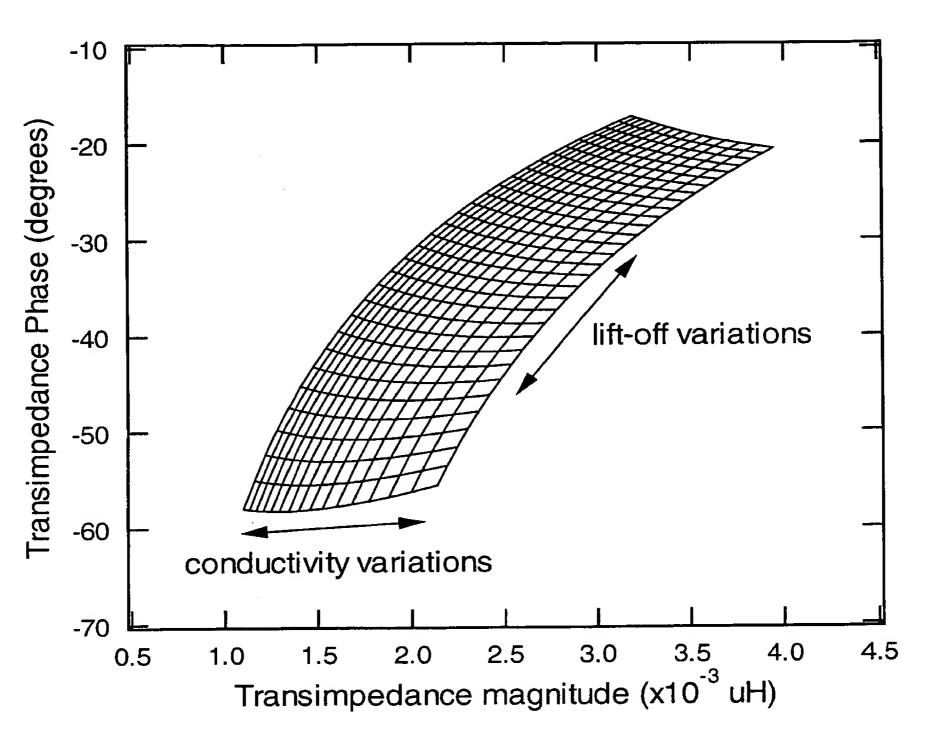
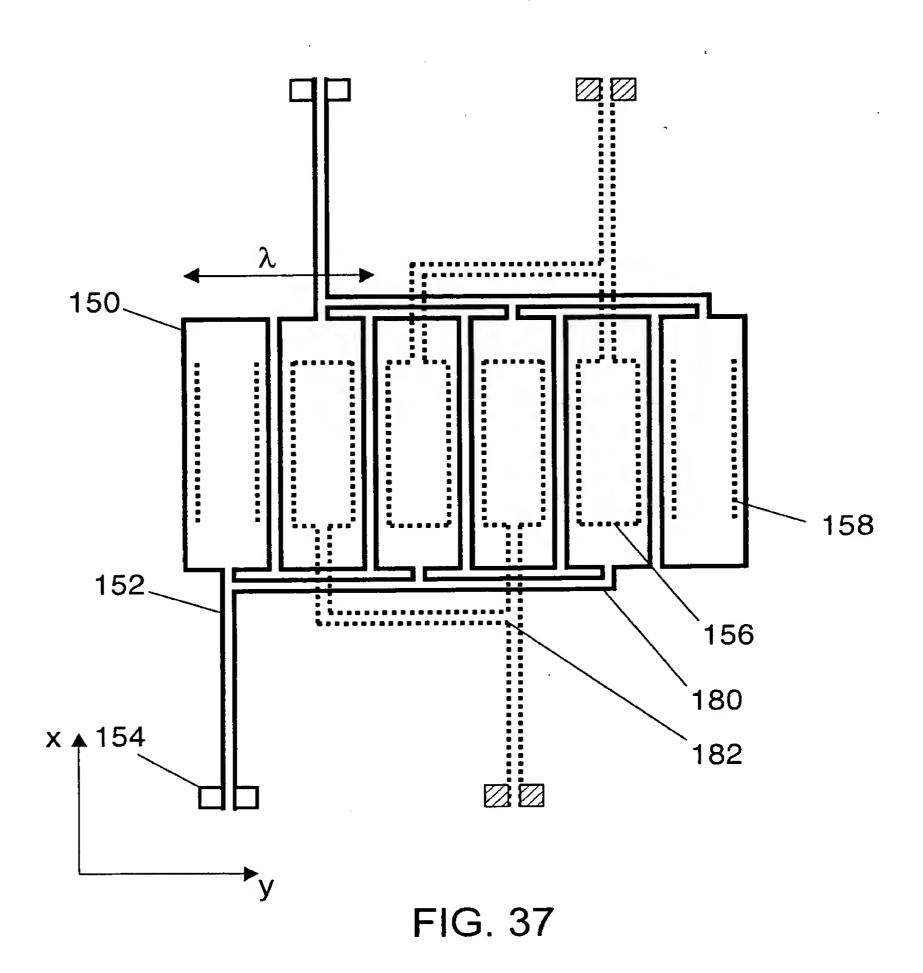


FIG. 36

Appl'n No.: 09/666,524
Title: SURFACE MOUNTED AND SCANNING...

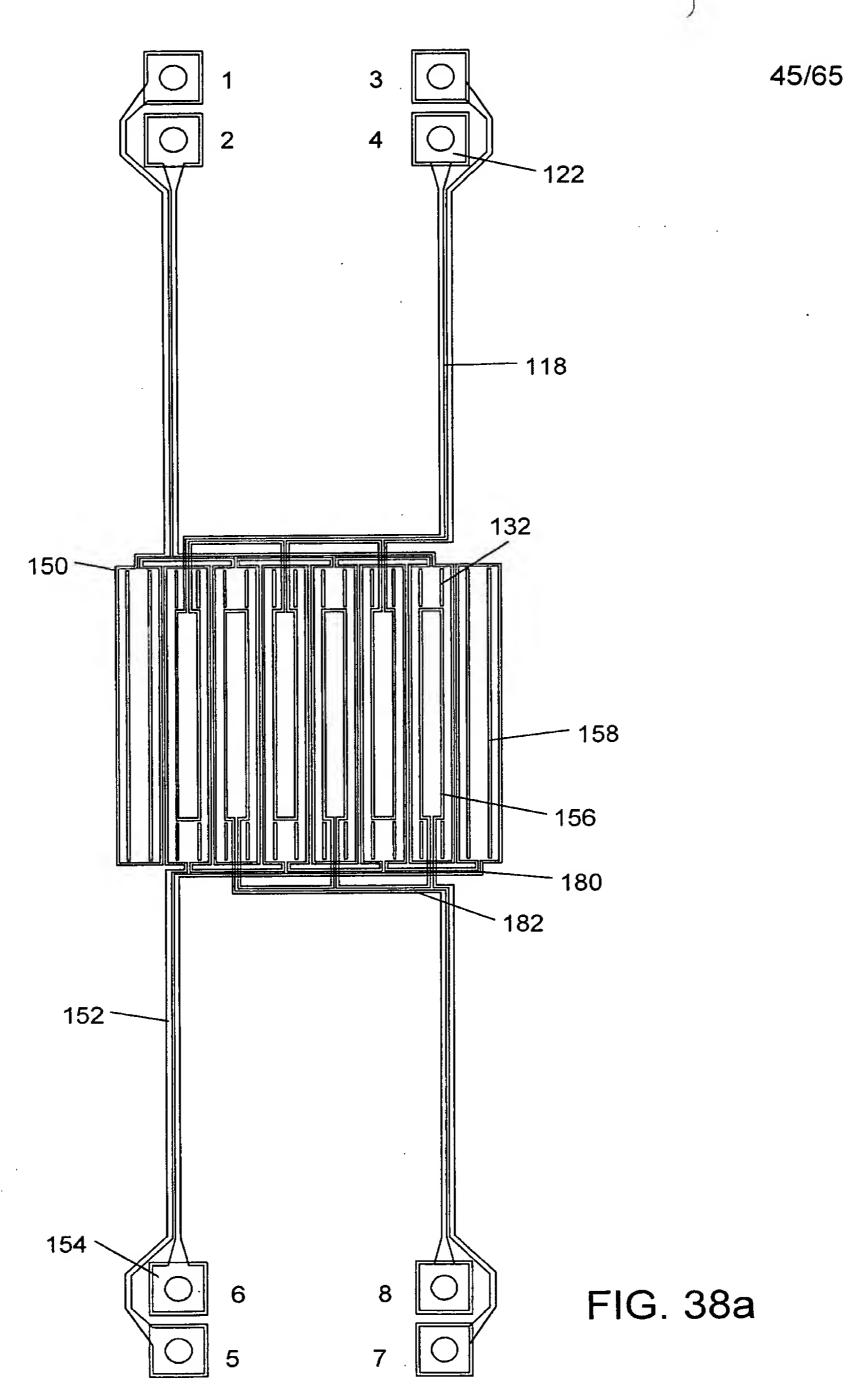
Inventors:

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Title: SURFACE MOUNTED AND SCANNING...

Inventors: Neil J.



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Title: SURFACE MOUNTED AND SCANNING...

Neil J. Goldfine, et al. Inventors: Replacement Sheet

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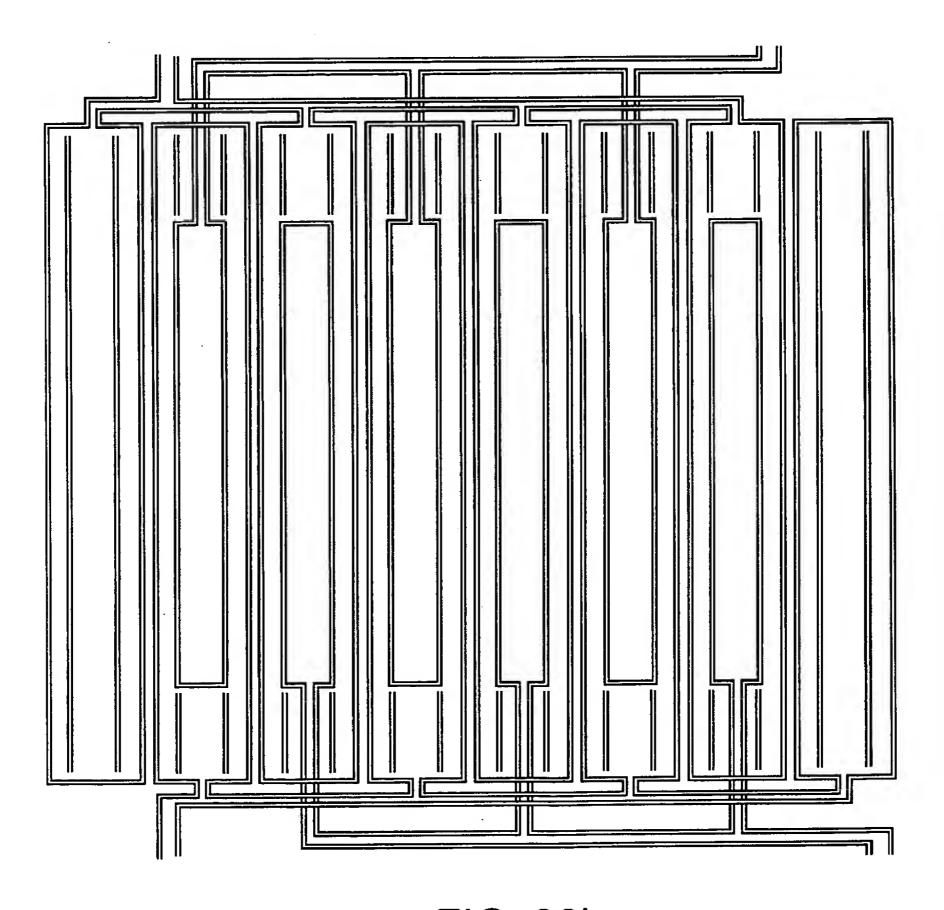


FIG. 38b

Title: SURFACE MOUNTED AND SCANNING...

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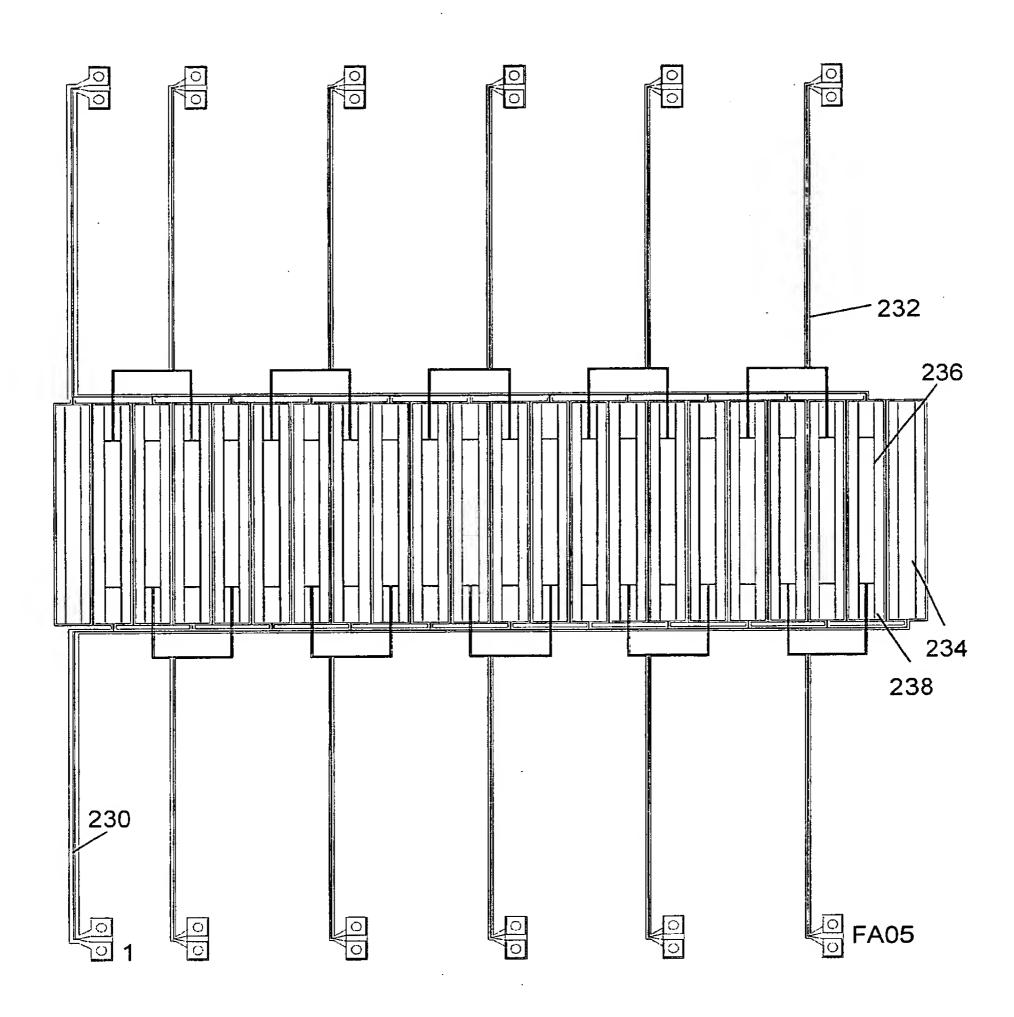
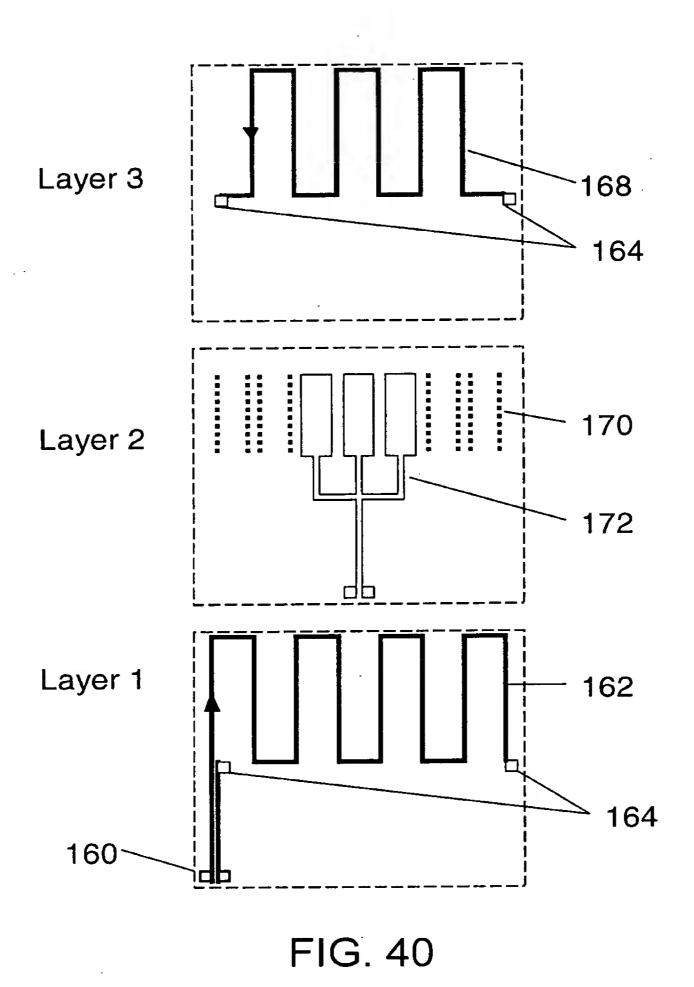


FIG. 39

Title: SURFACE MOUNTED AND SCANNING...

Inventors: Neil J. Gold

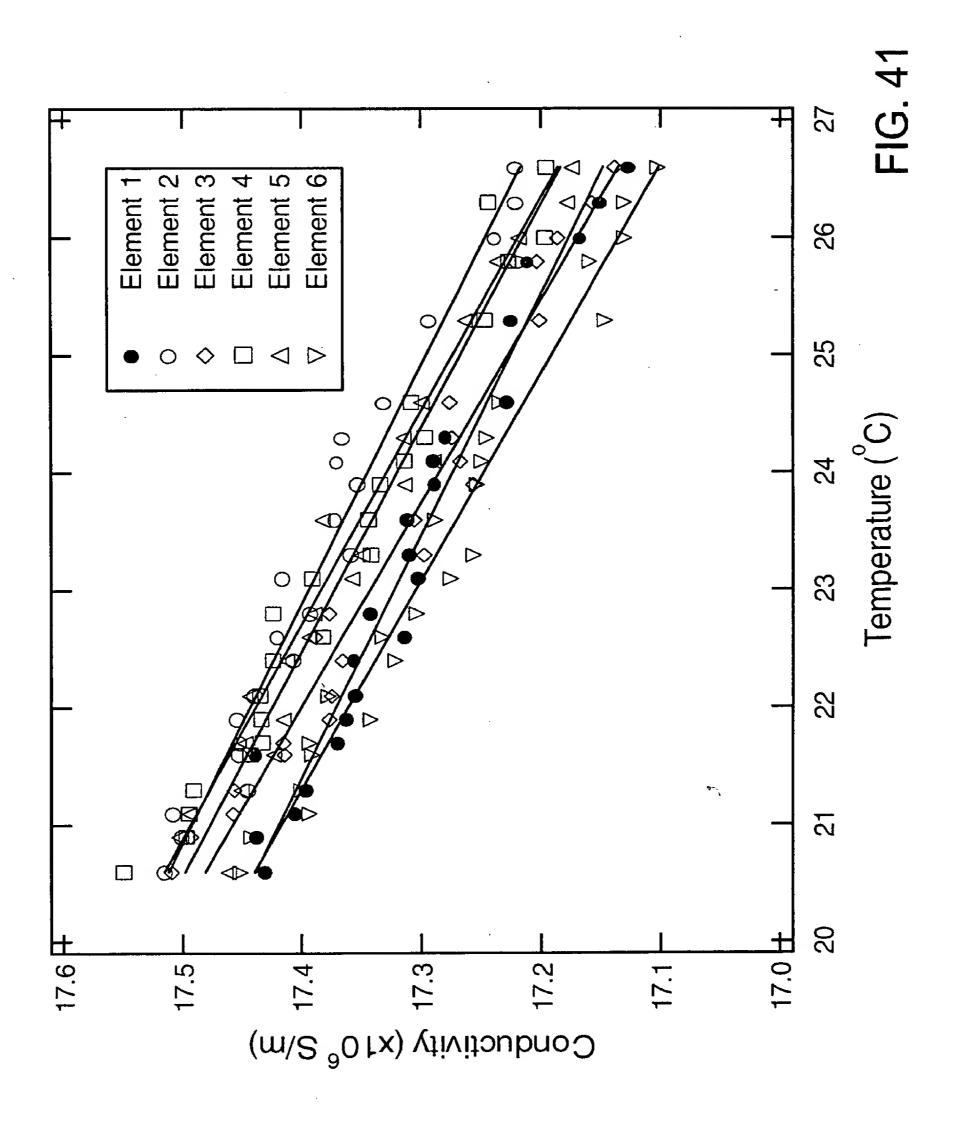
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Title: SURFACE MOUNTED AND SCANNING...

Inventors:

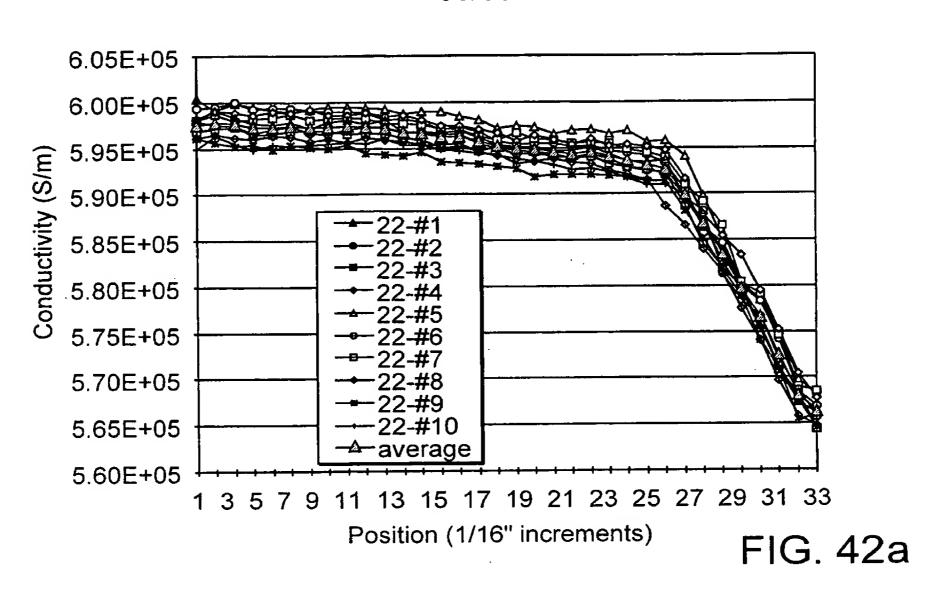
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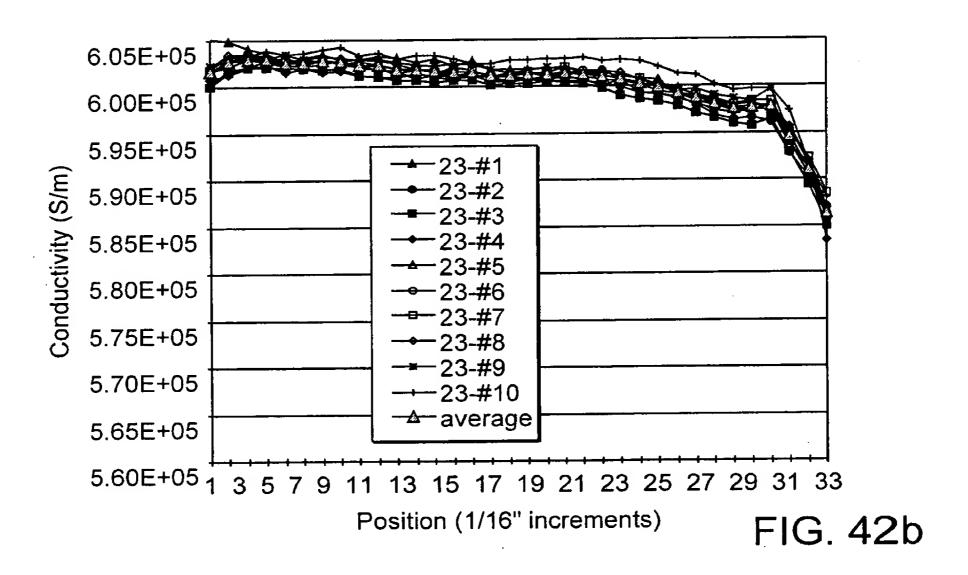


Title: SURFACE MOUNTED AND SCANNING...

Inventors:







Title: SURFACE MOUNTED AND SCANNING...

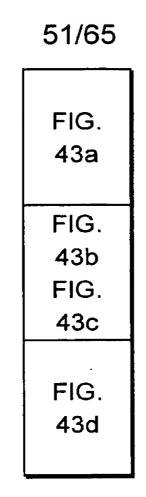
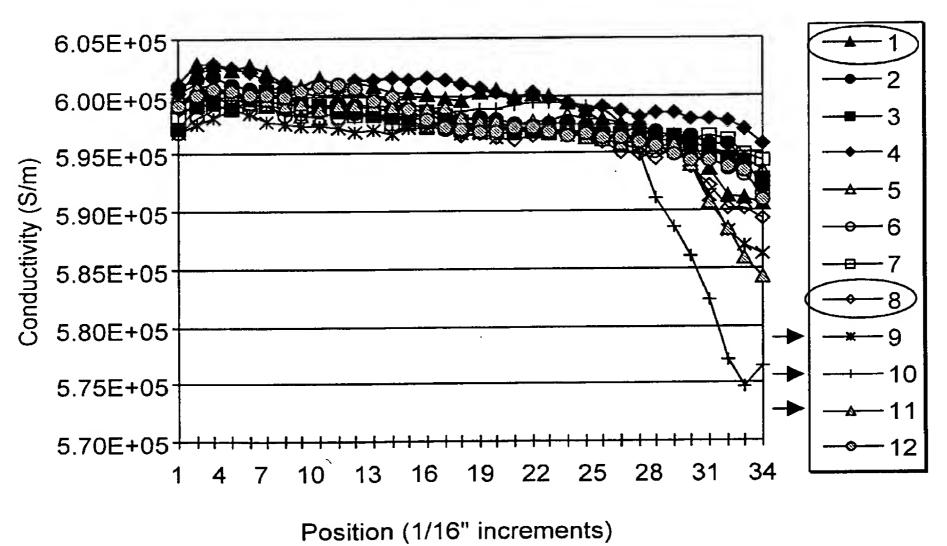


FIG. 43



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FIG. 43a

Title: SURFACE MOUNTED AND SCANNING... Inventors: Neil J. Goldfine, et al.

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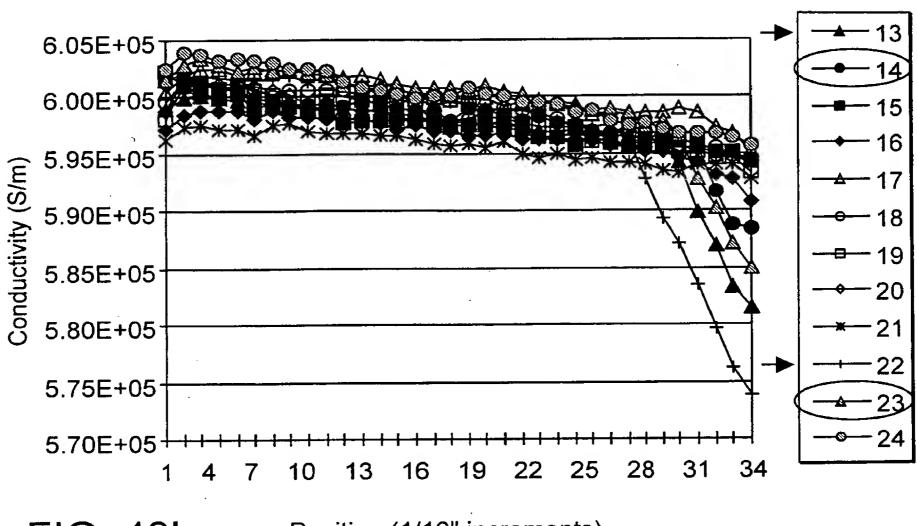


FIG. 43b Position (1/16" increments)

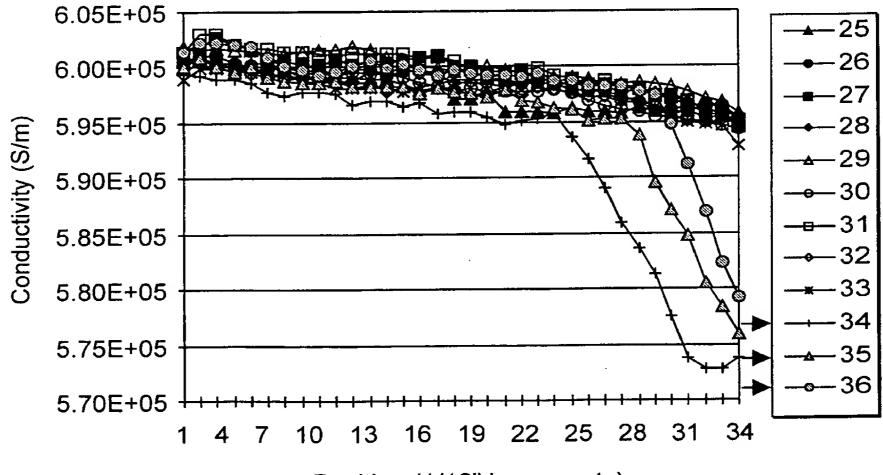


FIG. 43c Position (1/16" increments)

Title: SURFACE MOUNTED AND SCANNING...

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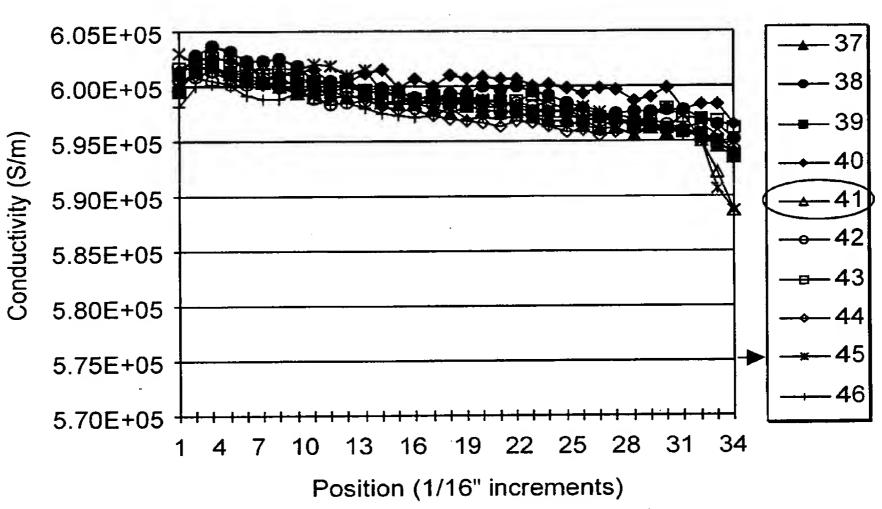


FIG. 43d

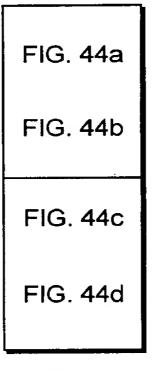


FIG. 44

Title: SURFACE MOUNTED AND SCANNING...

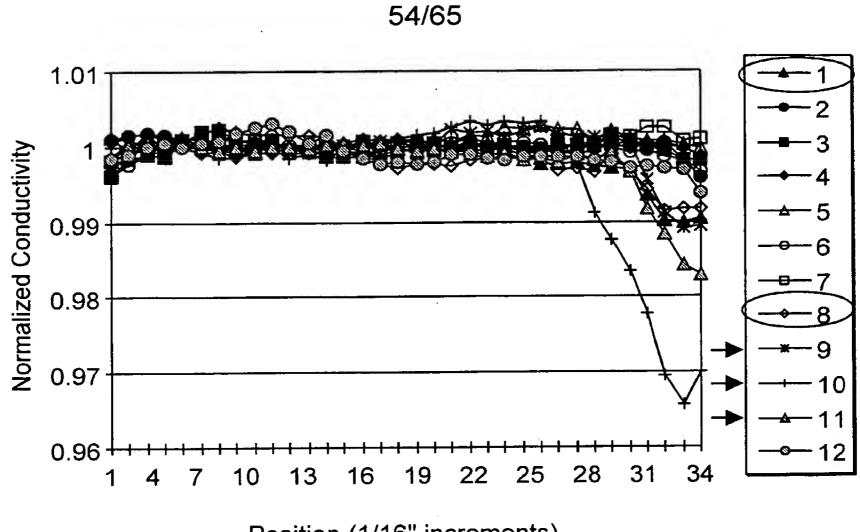


FIG. 44a Position (1/16" increments)

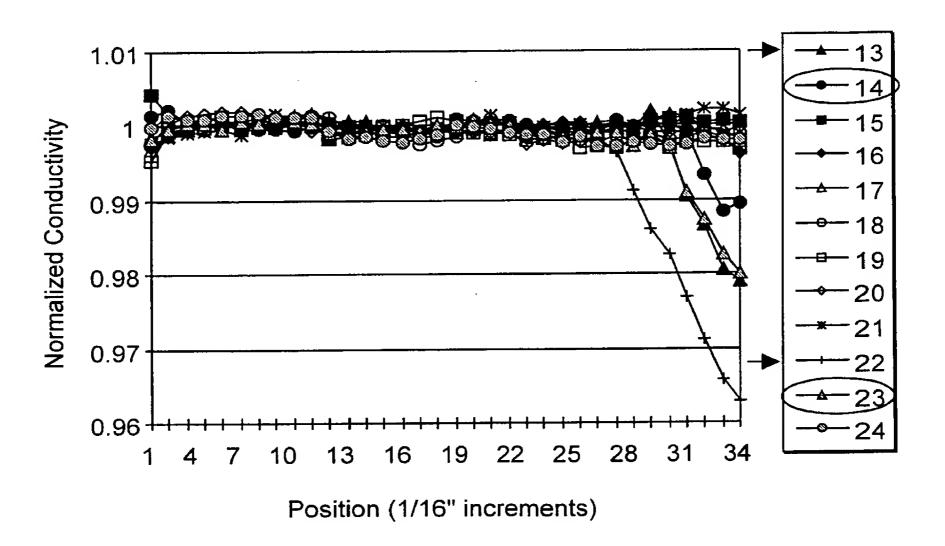


FIG. 44b

Title: SURFACE MOUNTED AND SCANNING...



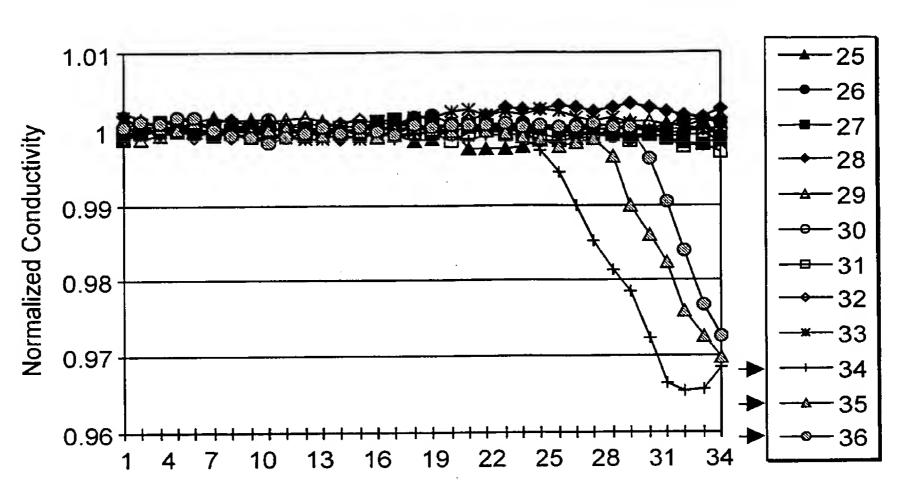


FIG. 44c Position (1/16" increments)

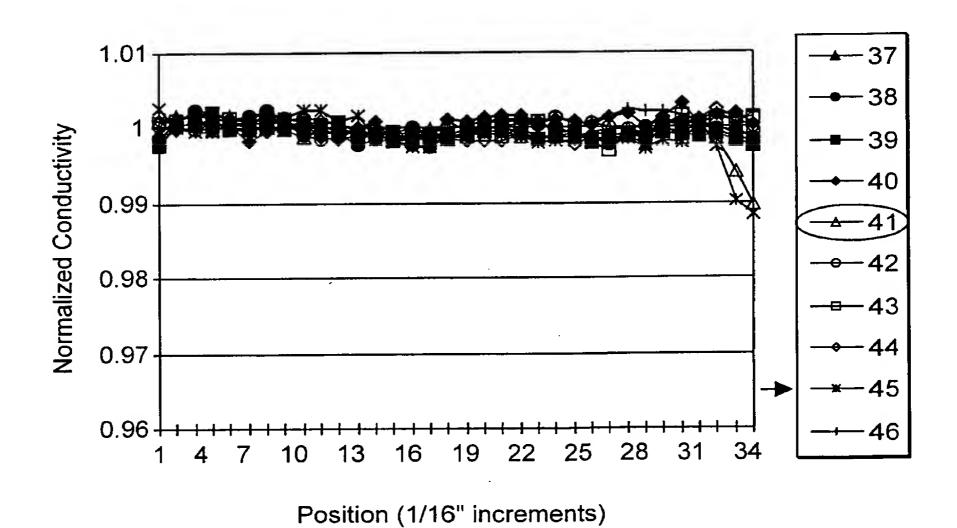
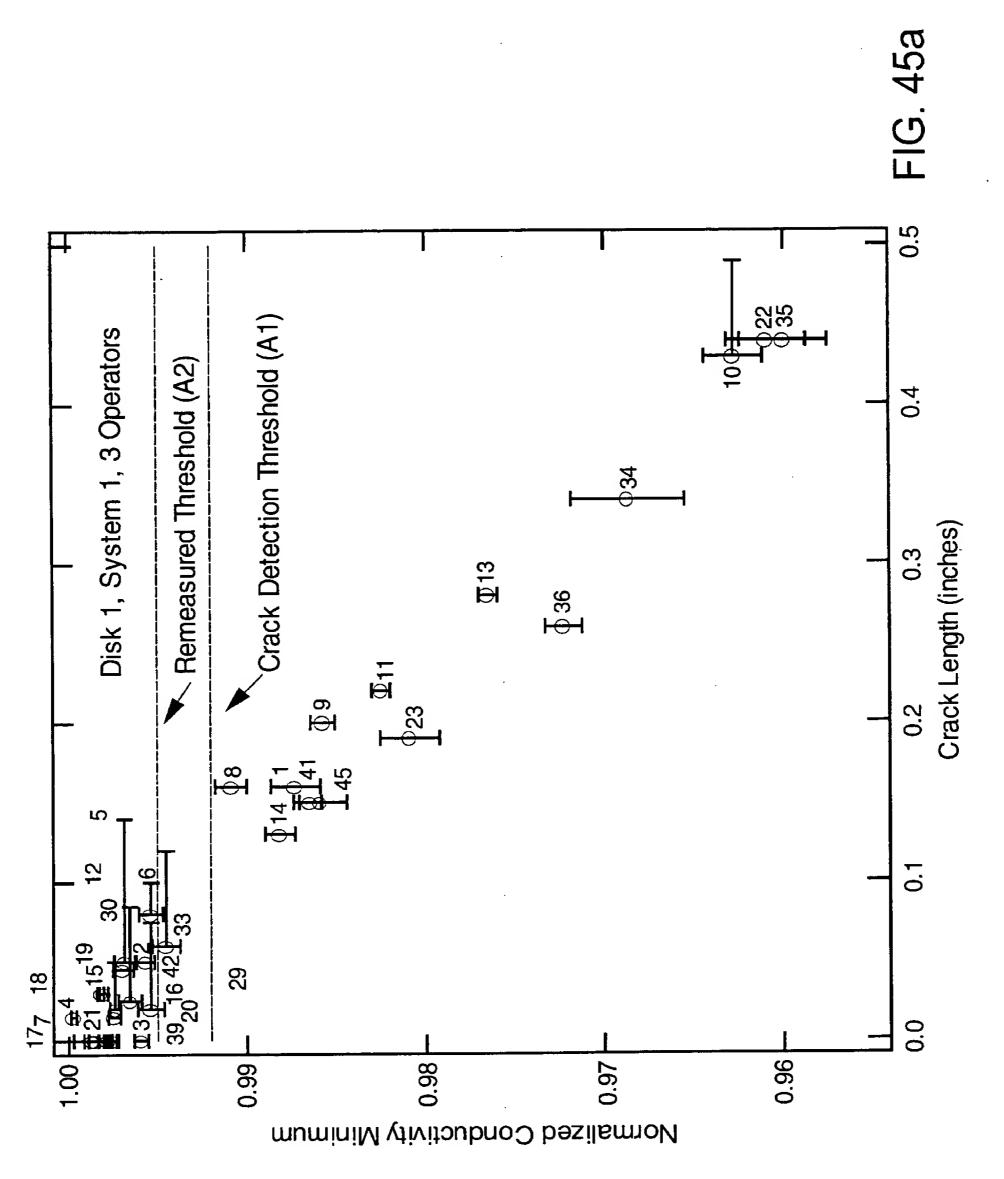


FIG. 44d

Title: SURFACE MOUNTED AND SCANNING...

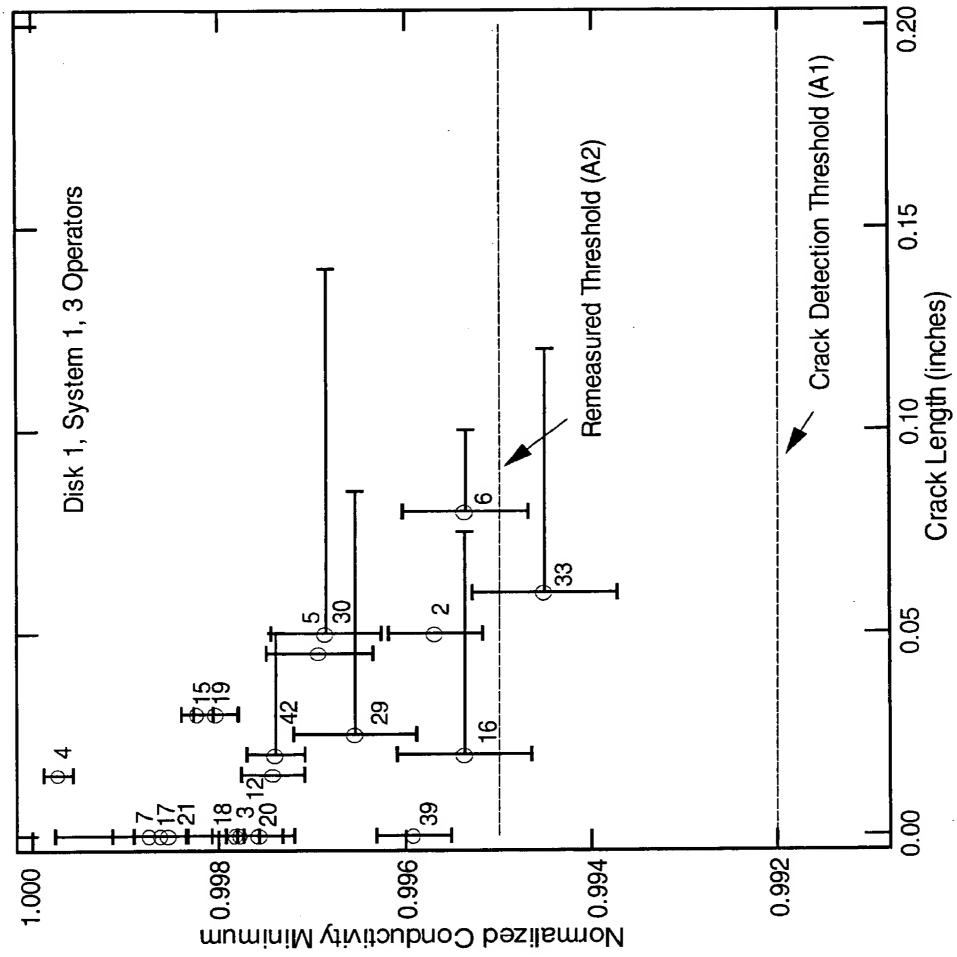
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Title: SURFACE MOUNTED AND SCANNING...



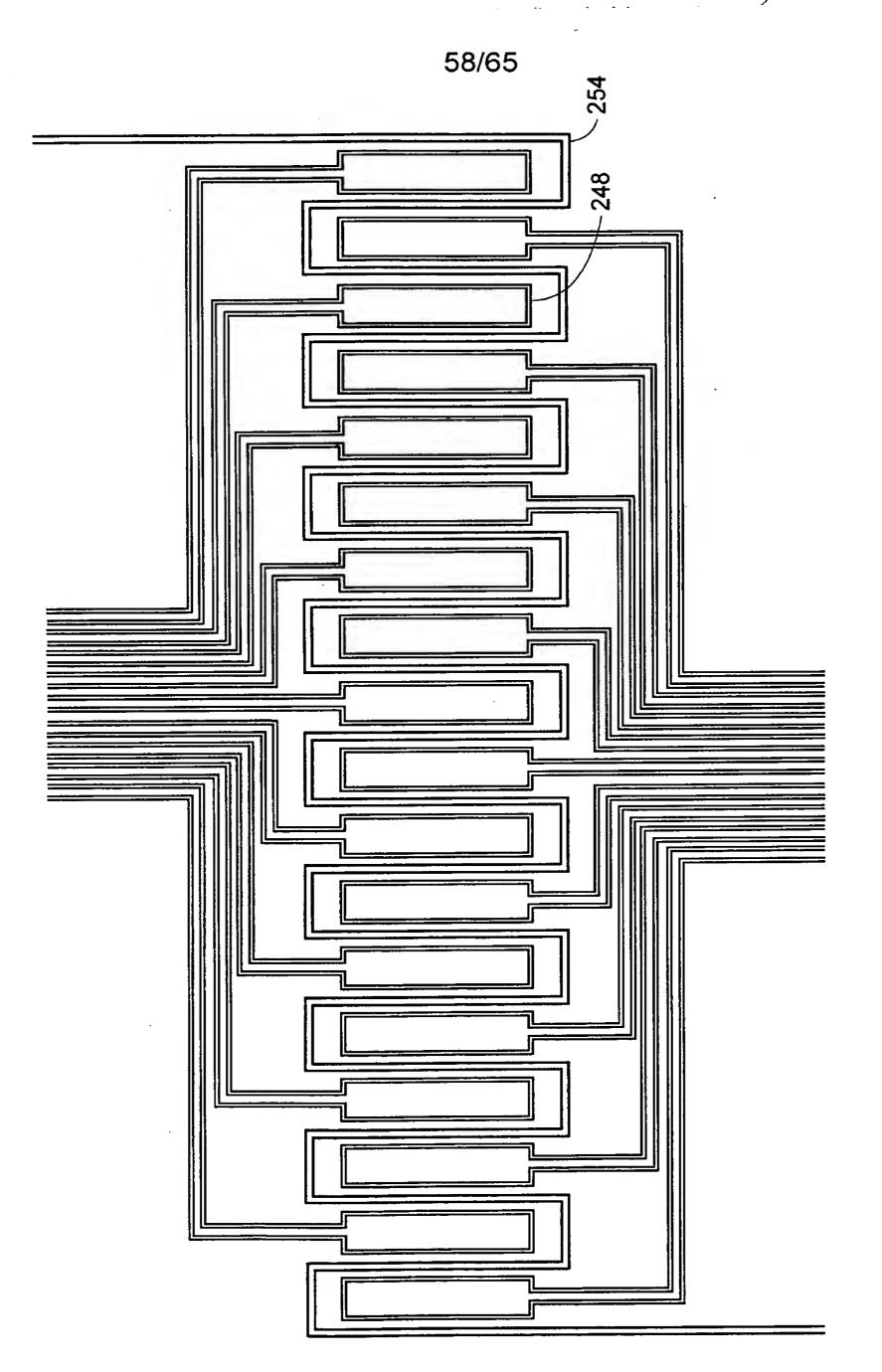






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Replacement Sheet

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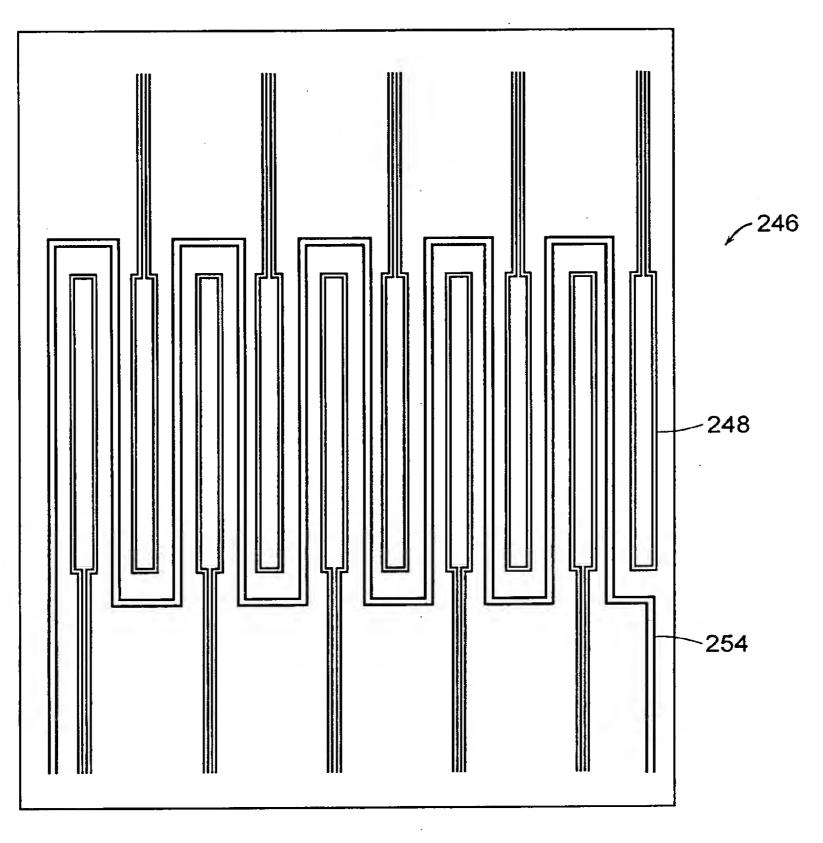


FIG. 47

Title: SURFACE MOUNTED AND SCANNING...

Inventors:

Neil J. Goldfine, et al. Replacement Sheet

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MWM Monitoring of Weld Quality in GTAW Ti-2 Welds at 400 kHz

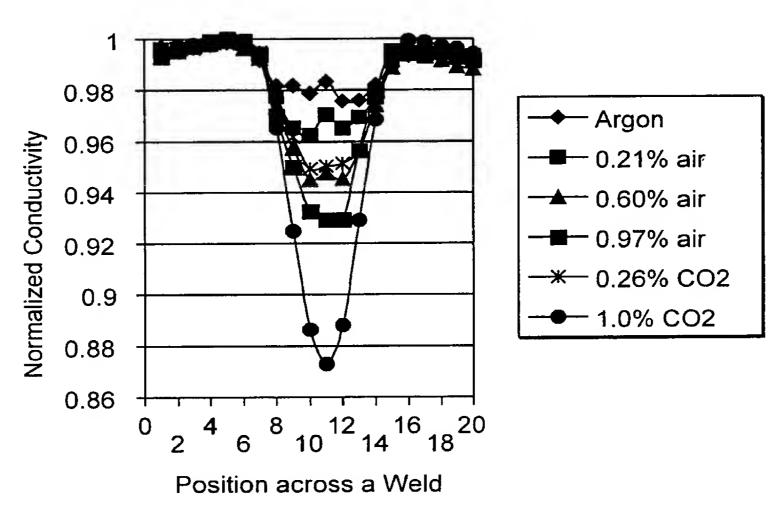


FIG. 48

Title: SURFACE MOUNTED AND SCANNING...

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Effect of Argon Contamination by Air on Normalized Conductivity of Autogeneous GTA Ti-2 Weld

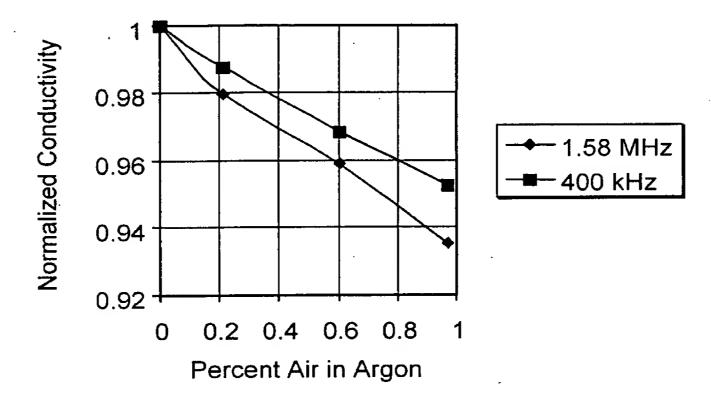


FIG. 49

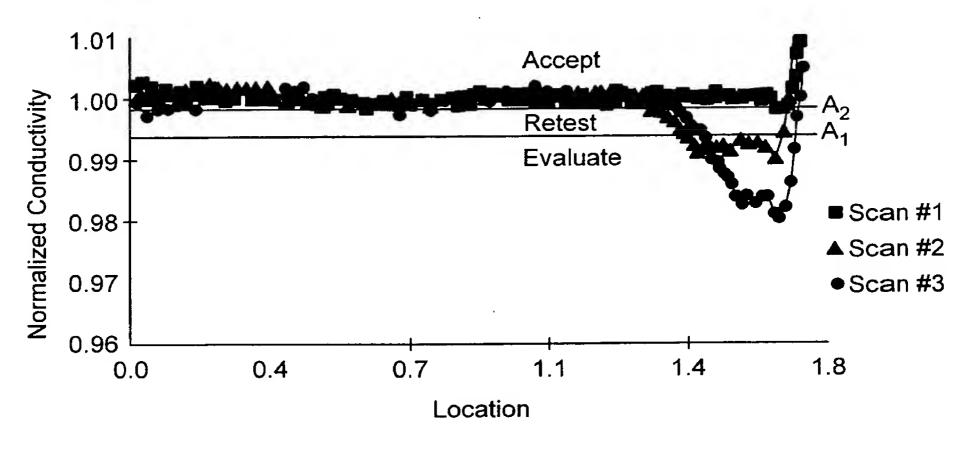


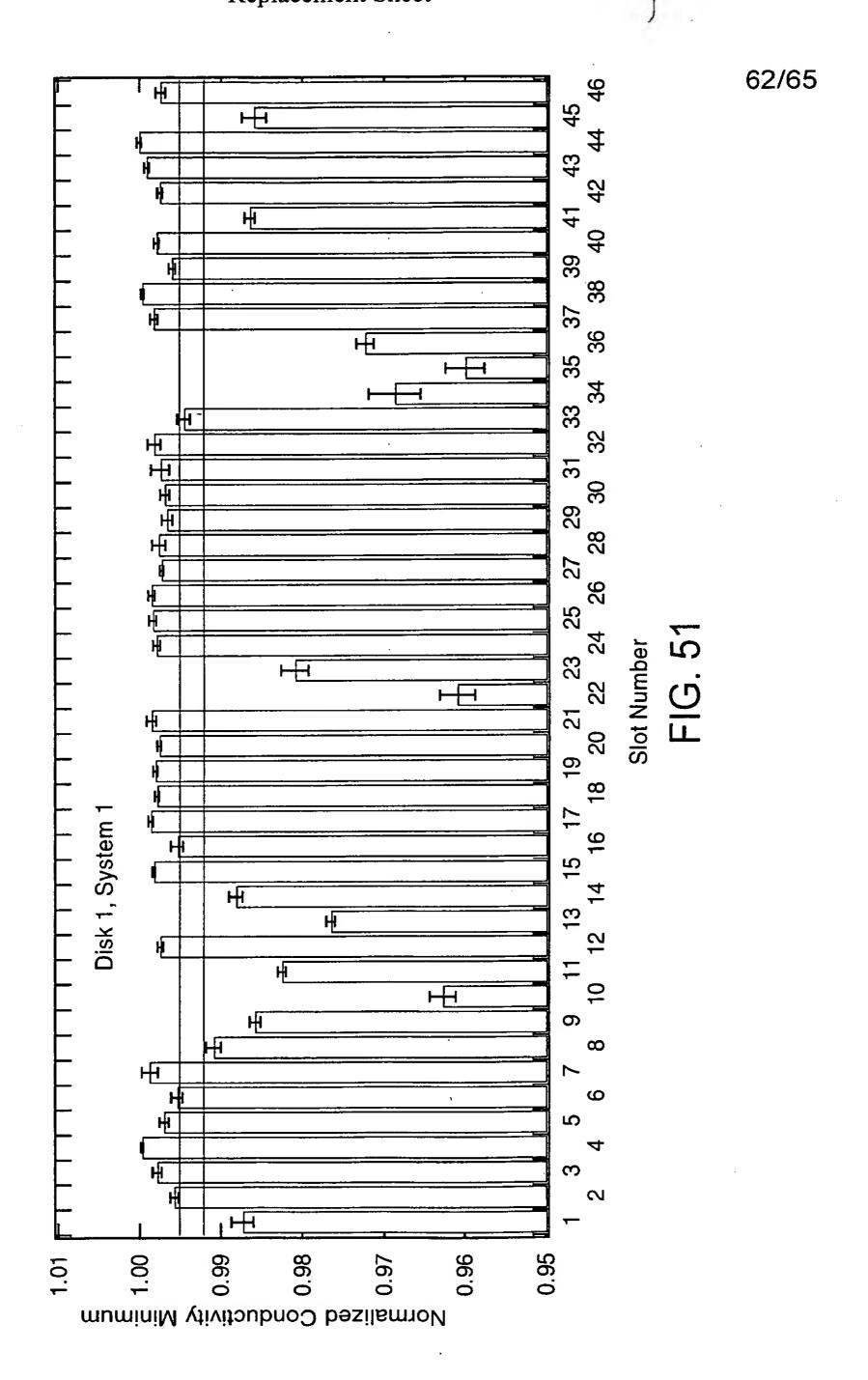
FIG. 50

Appl'n No.:

09/666,524

Title: SURFACE MOUNTED AND SCANNING...

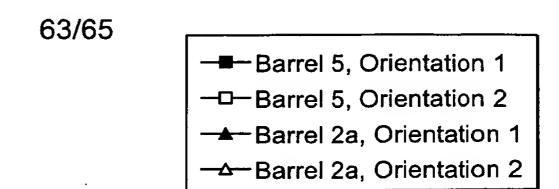
Inventors:



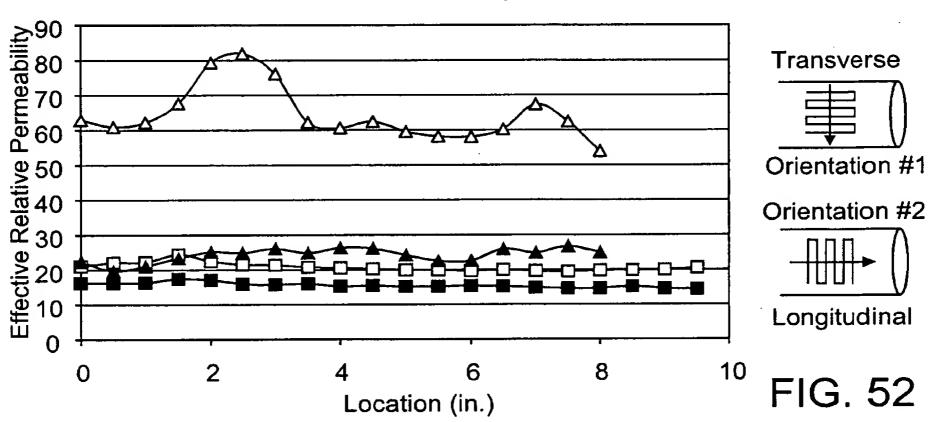
Title: SURFACE MOUNTED AND SCANNING...

Inventors: Neil J. Goldfine, et al.

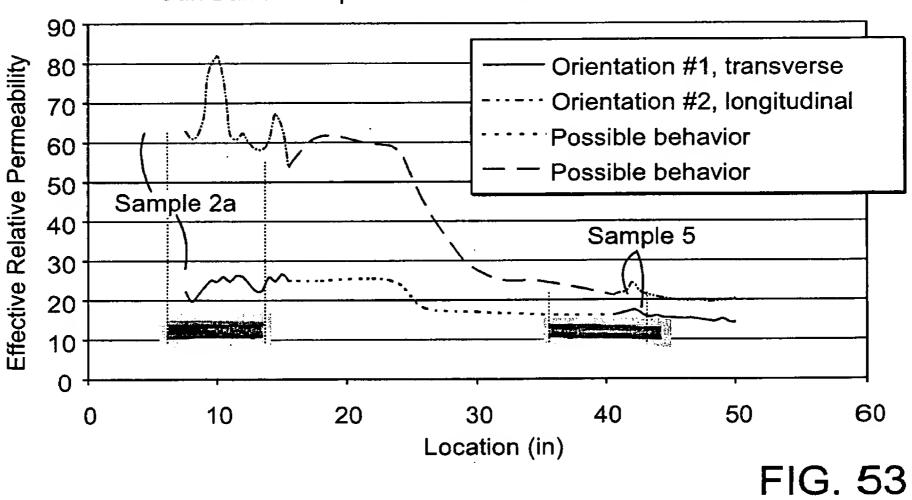
Replacement Sheet

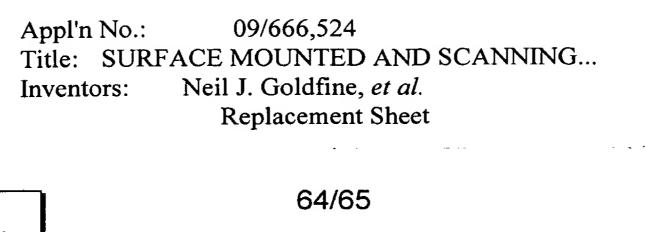


Effective Relative Permeability vs. Location



Effect of Overheating on Directional Permeability of 25mm Gun Barrel Sample 5 and 2a - FS26 Sensor 100 kHz





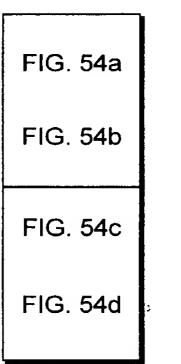


FIG. 54

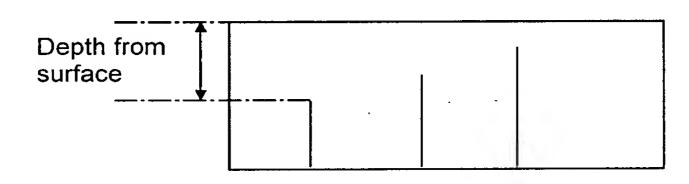


FIG. 54a

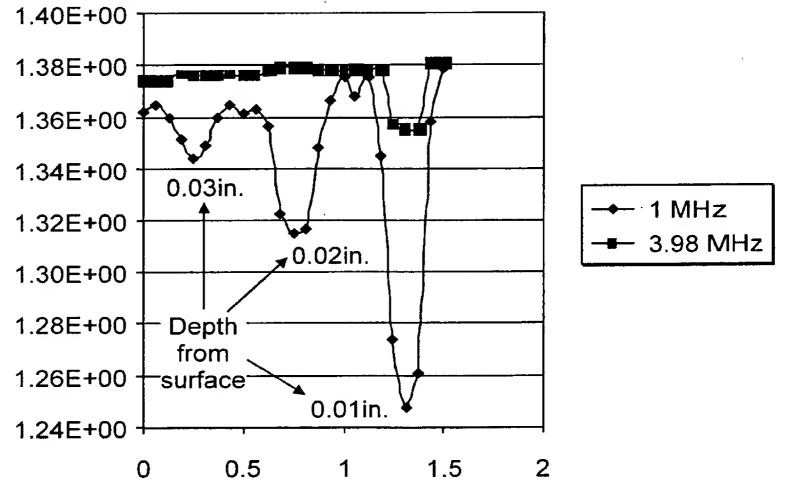


FIG. 54b

Title: SURFACE MOUNTED AND SCANNING...

Inventors: Neil J. Goldfine, et al.

Replacement Sheet

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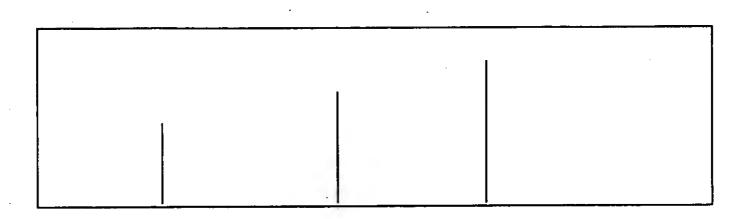


FIG. 54c

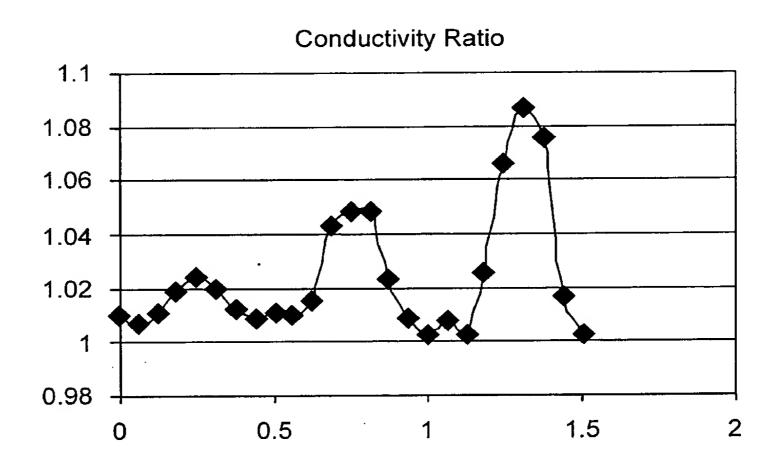


FIG. 54d